

Figure 1A

PRIOR ART

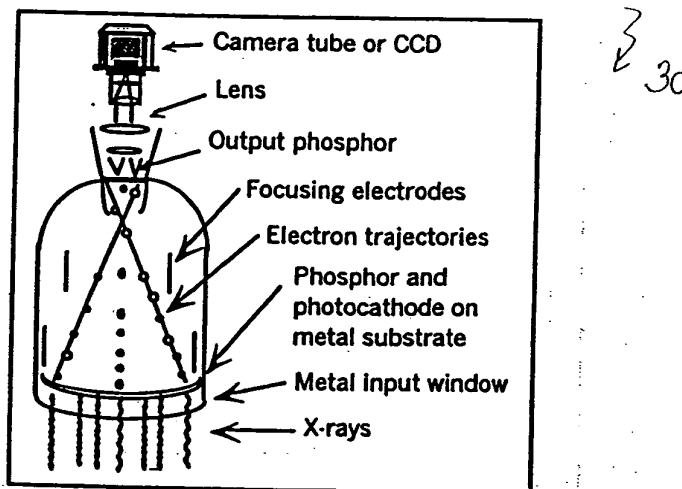
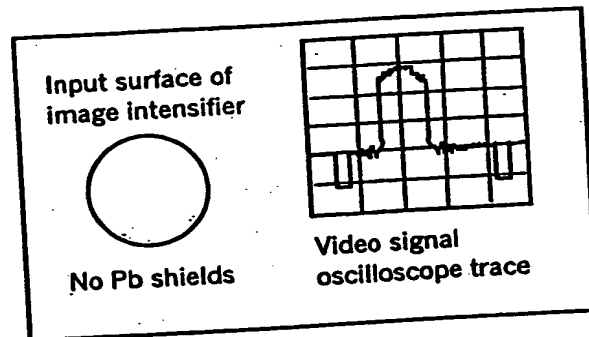


Figure 1B

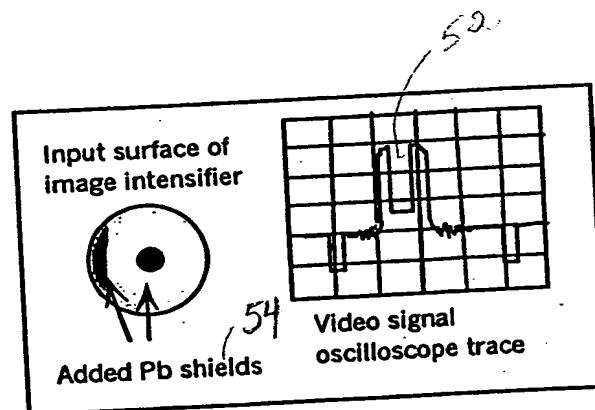
PRIOR ART

09990880-112101



PRIOR ART

Figure 2A



PRIOR ART

Figure 2B

09900880 112101

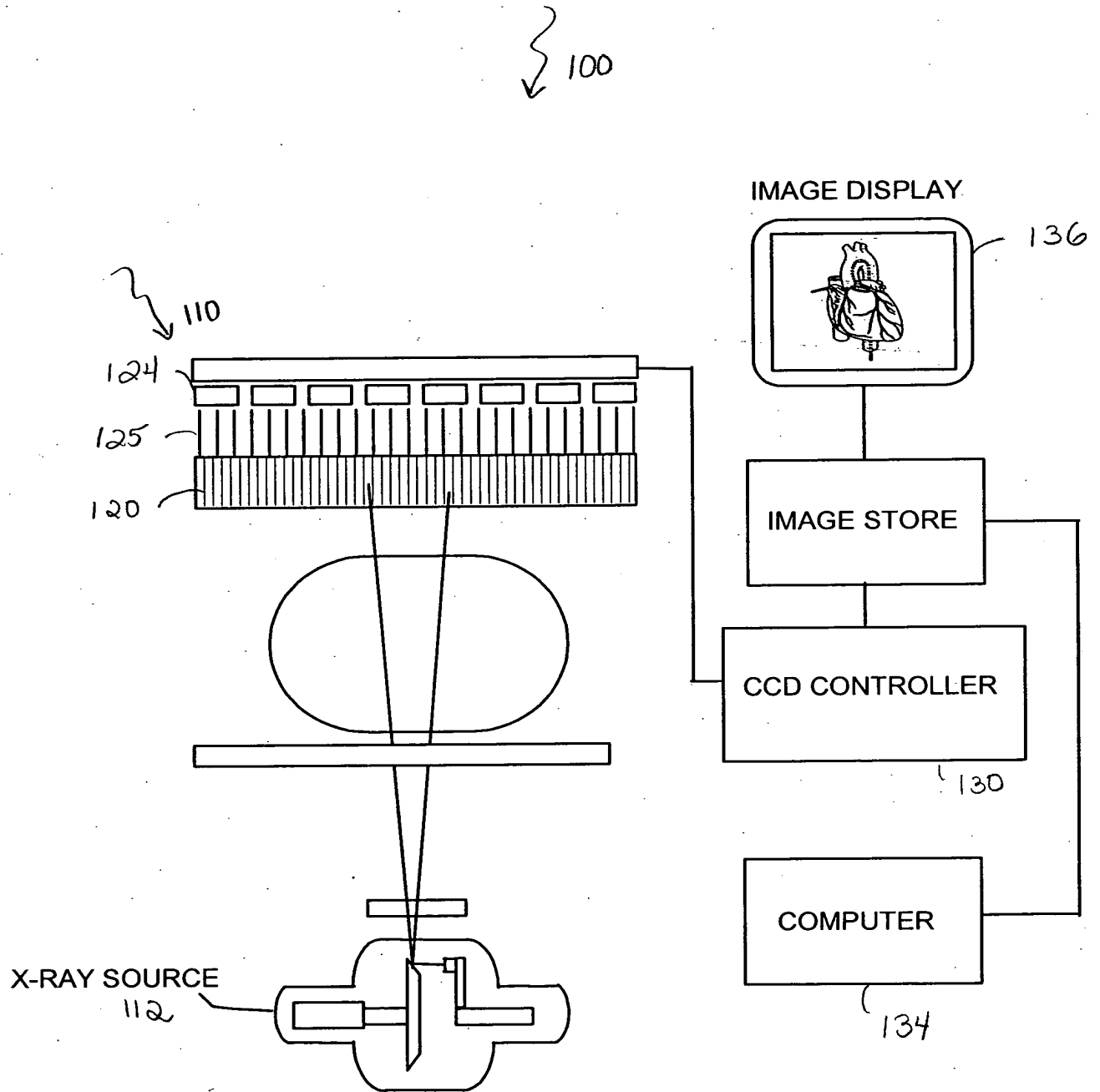


Figure 3A

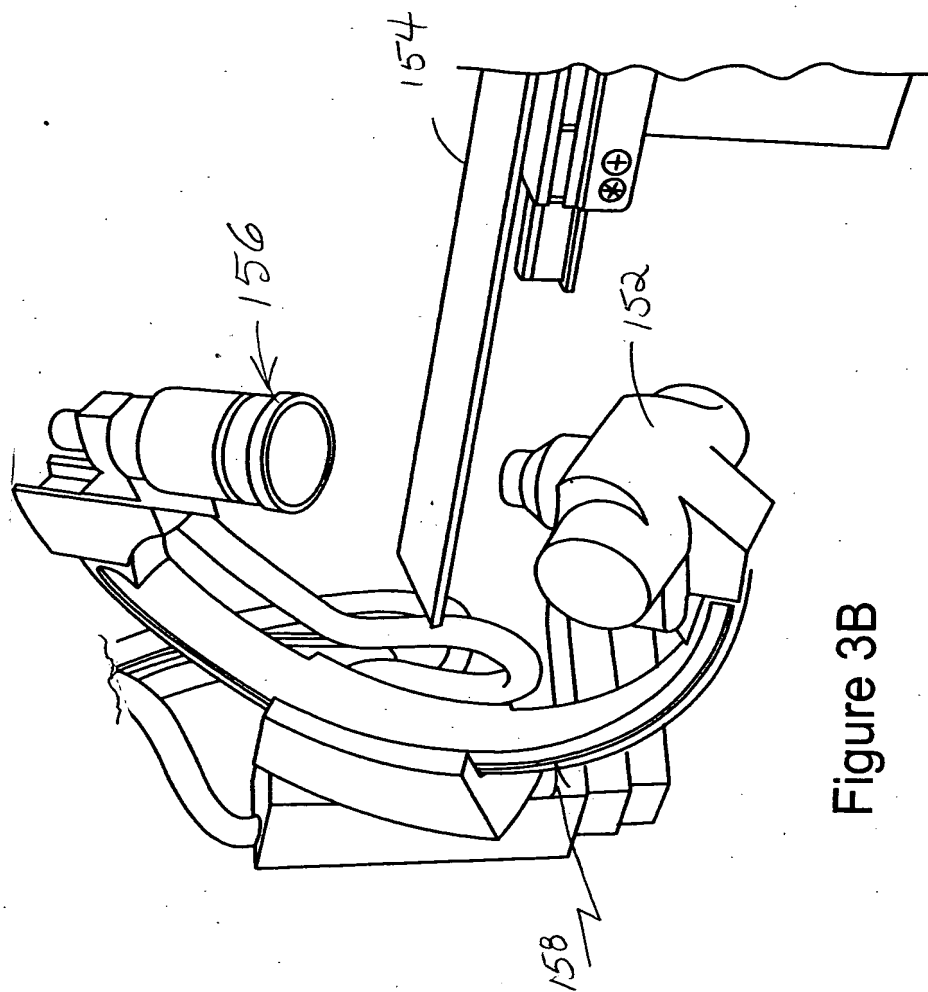


Figure 3B

09990880.112101

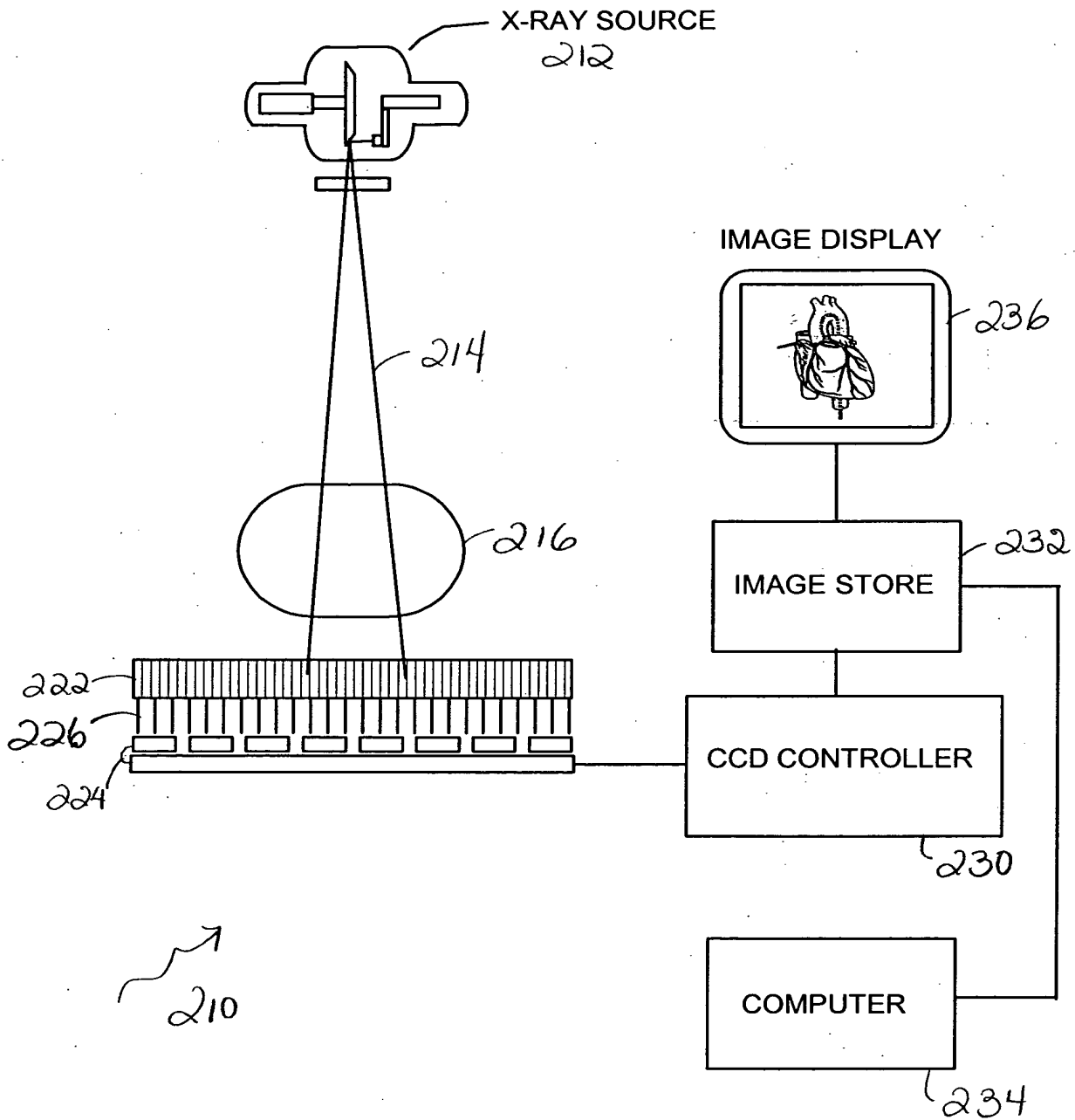


Figure 4A

FIG. 4B

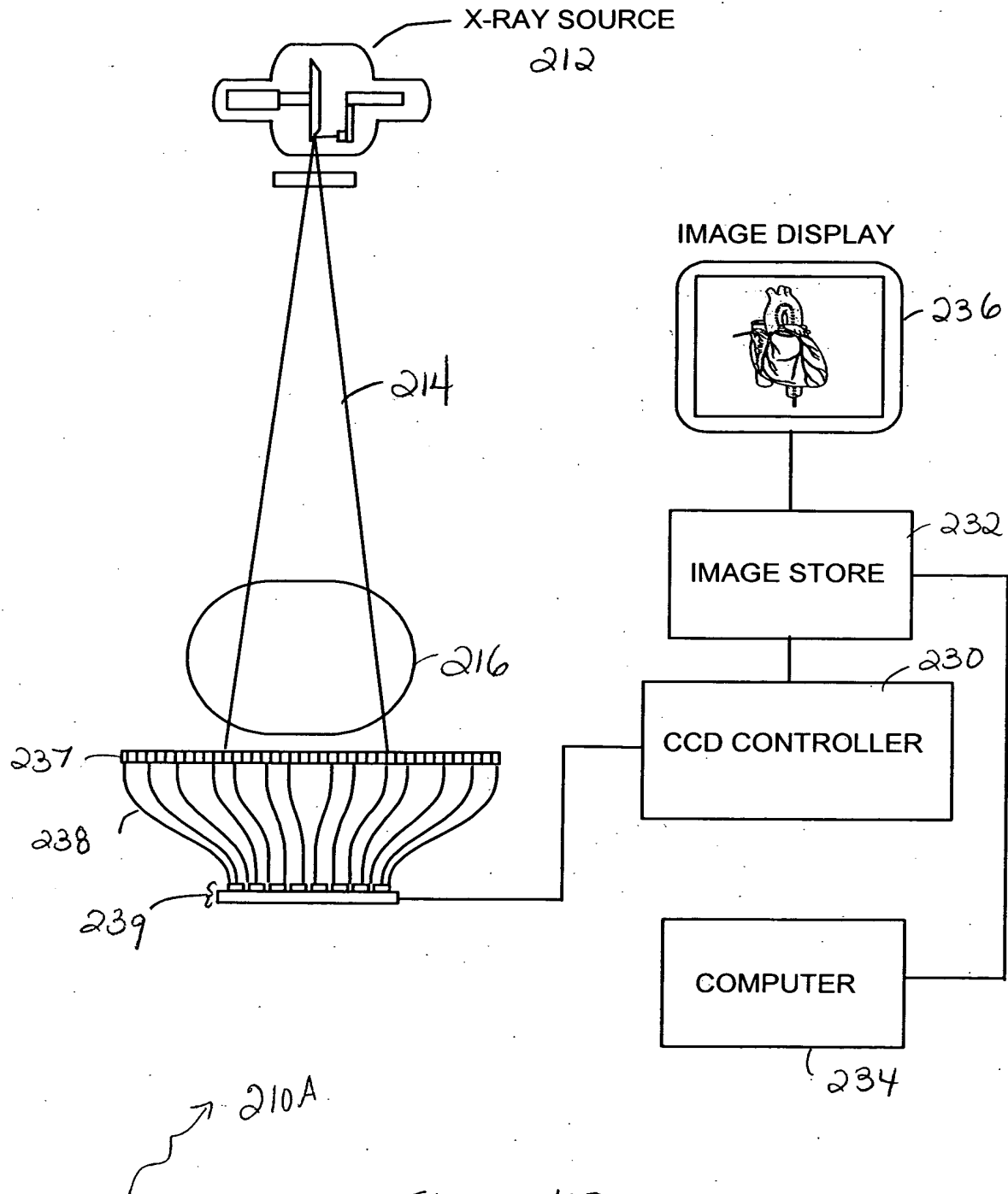
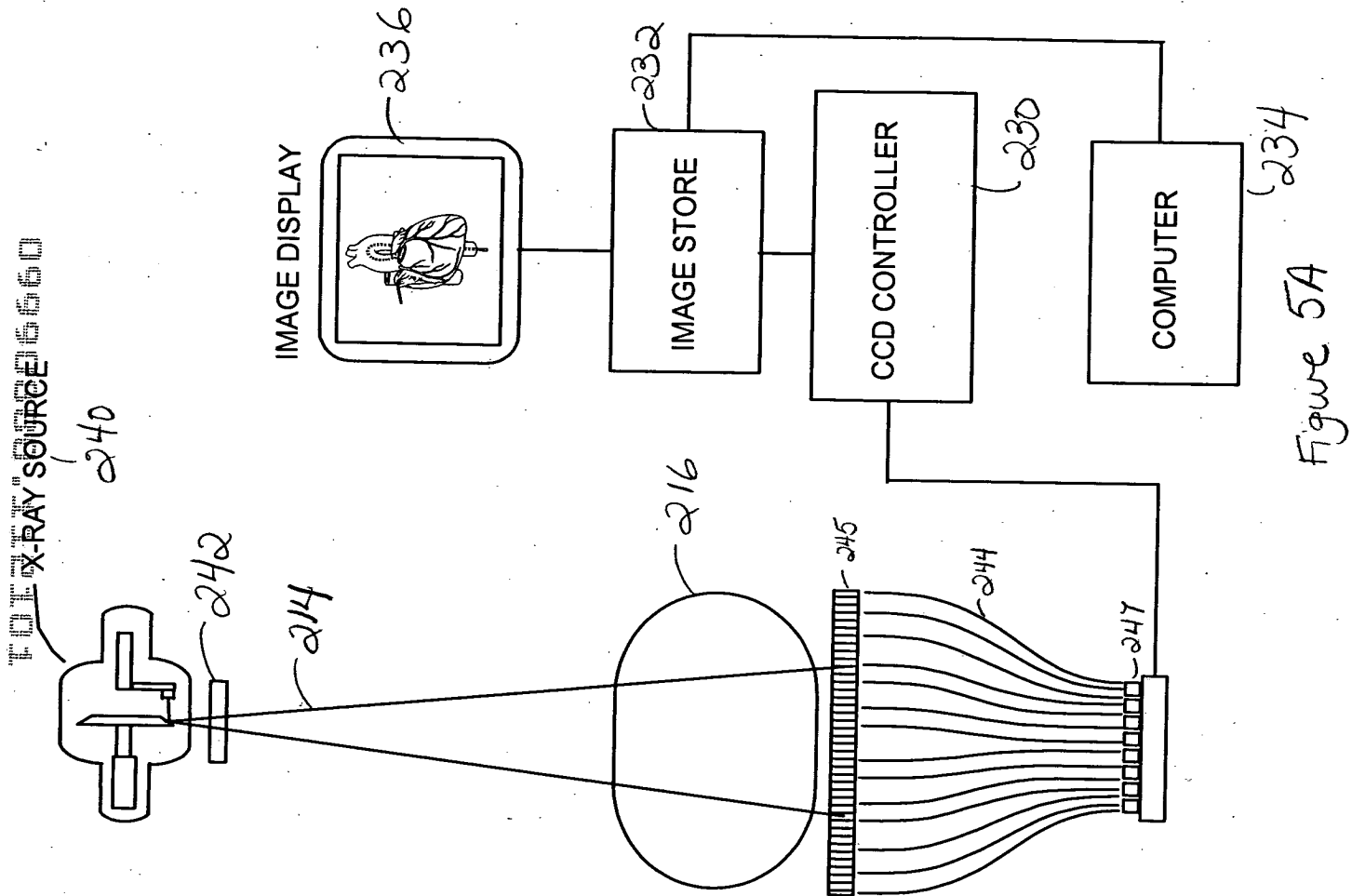


Figure 4B



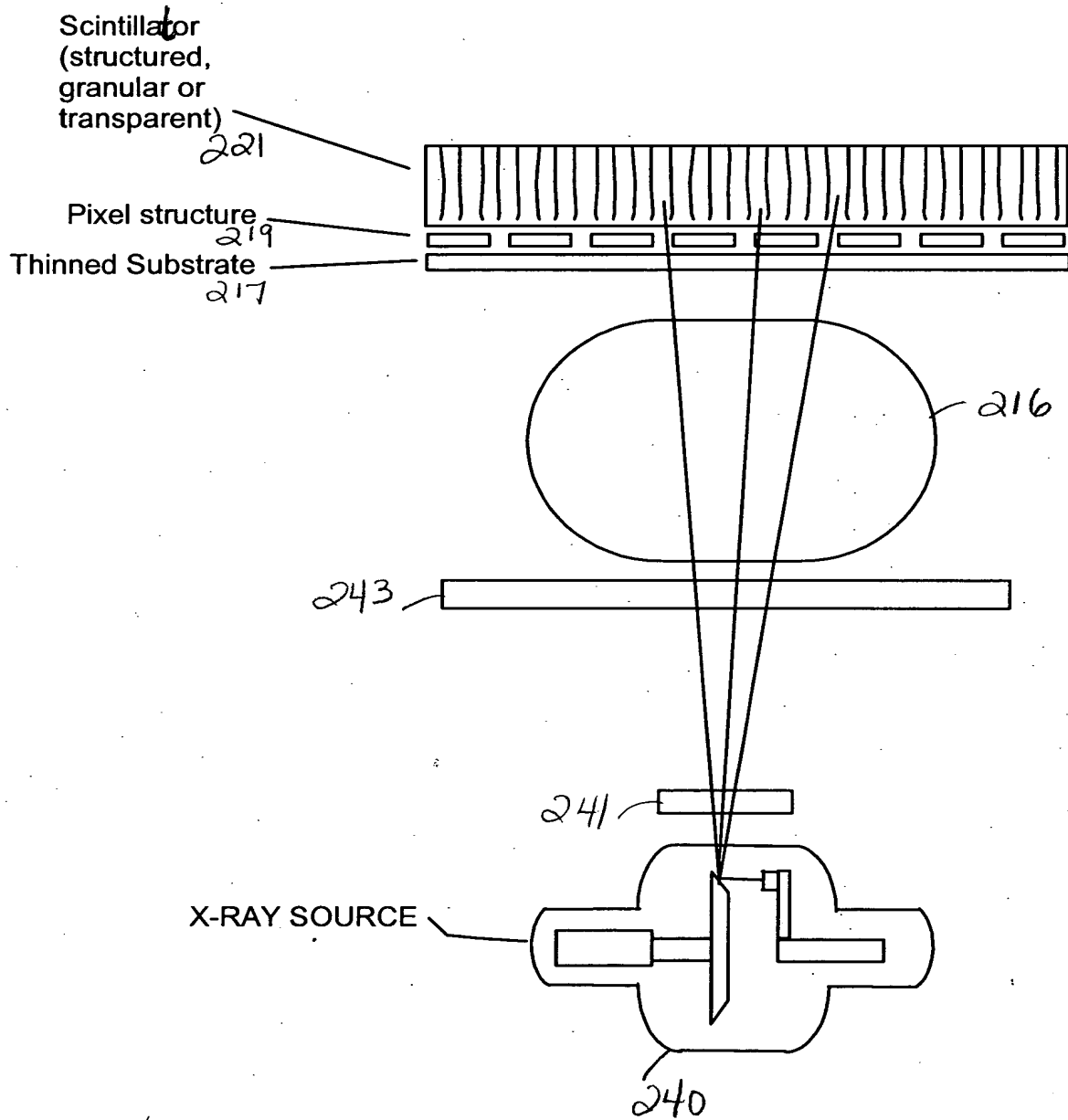


Figure 5B

0990880 11101

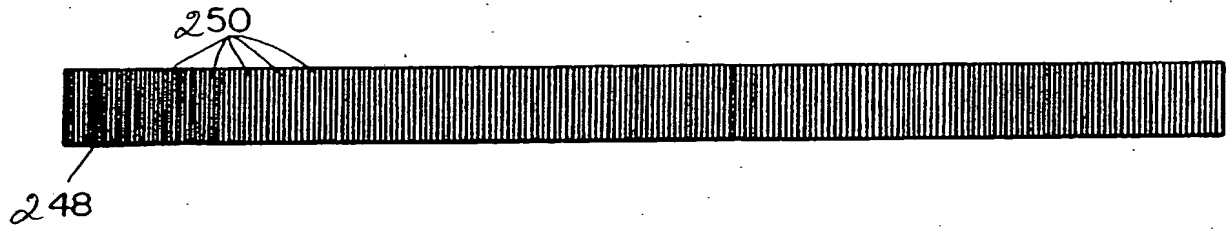


Figure 6

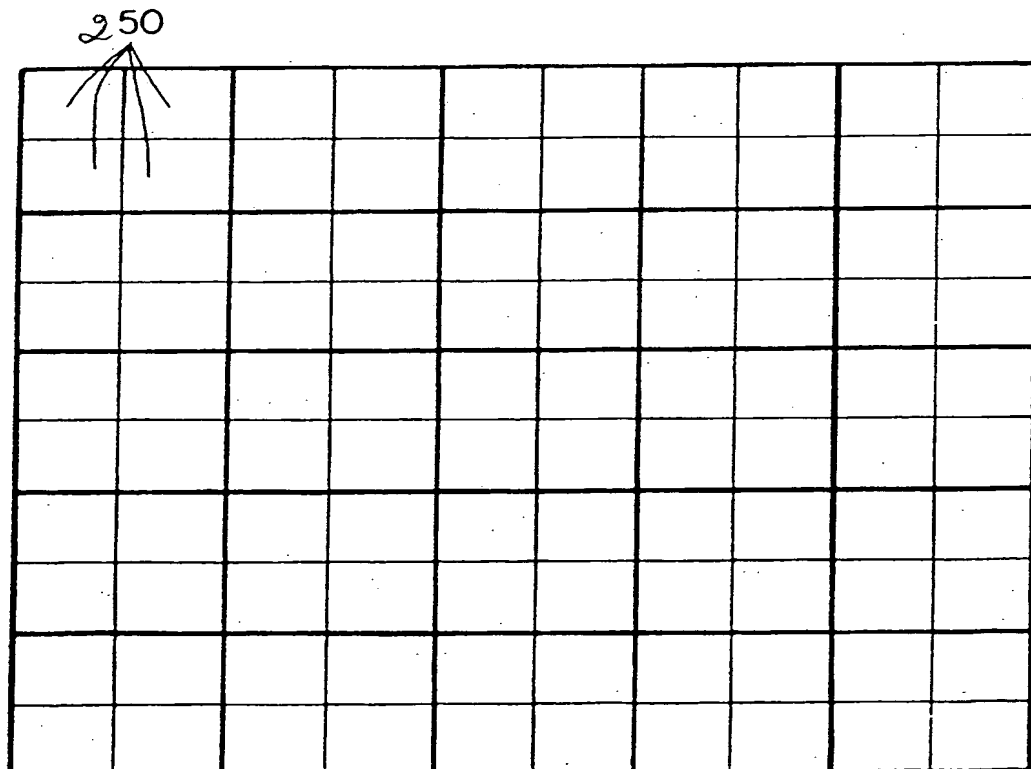


Figure 7

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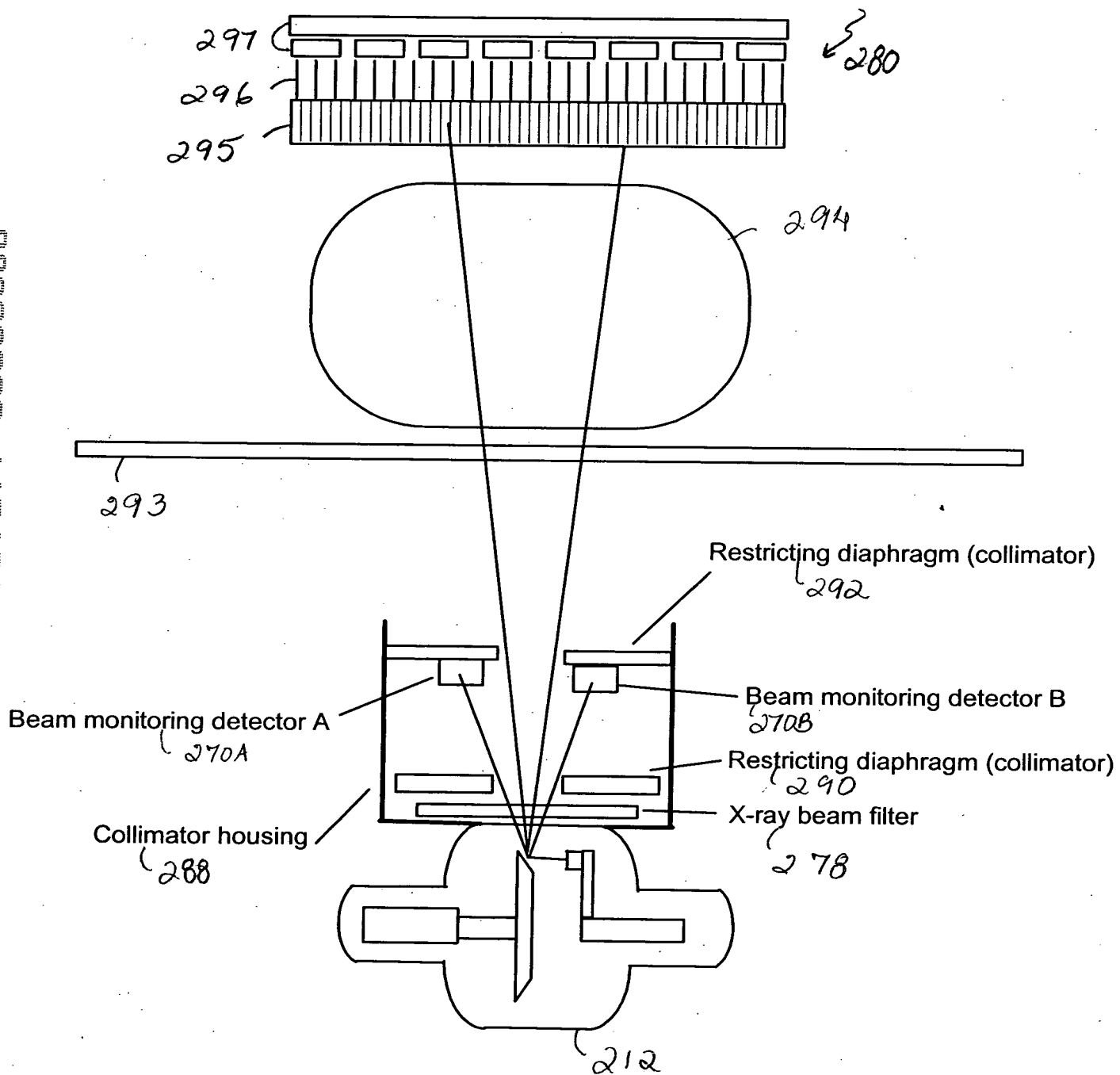
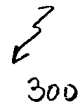


Figure 8



320

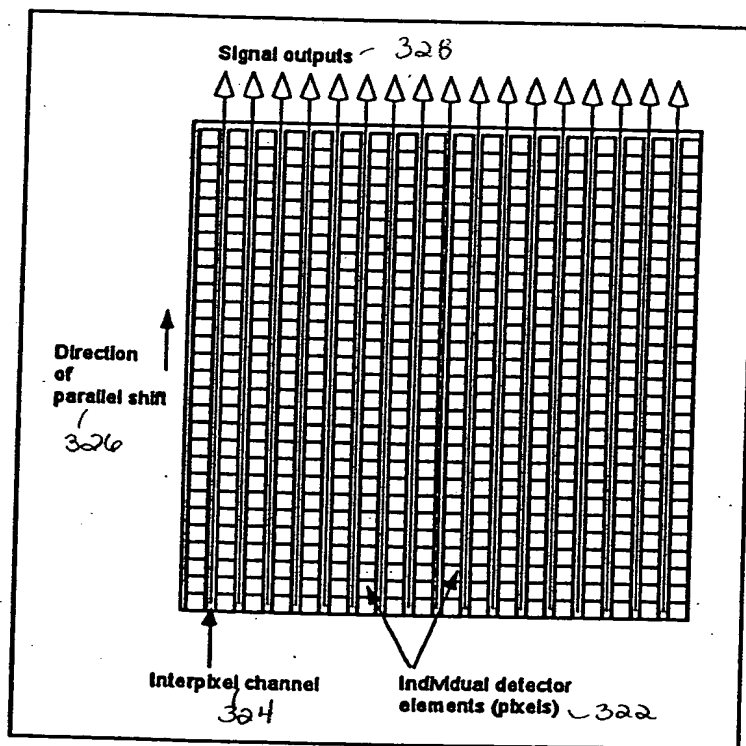


Figure 9B

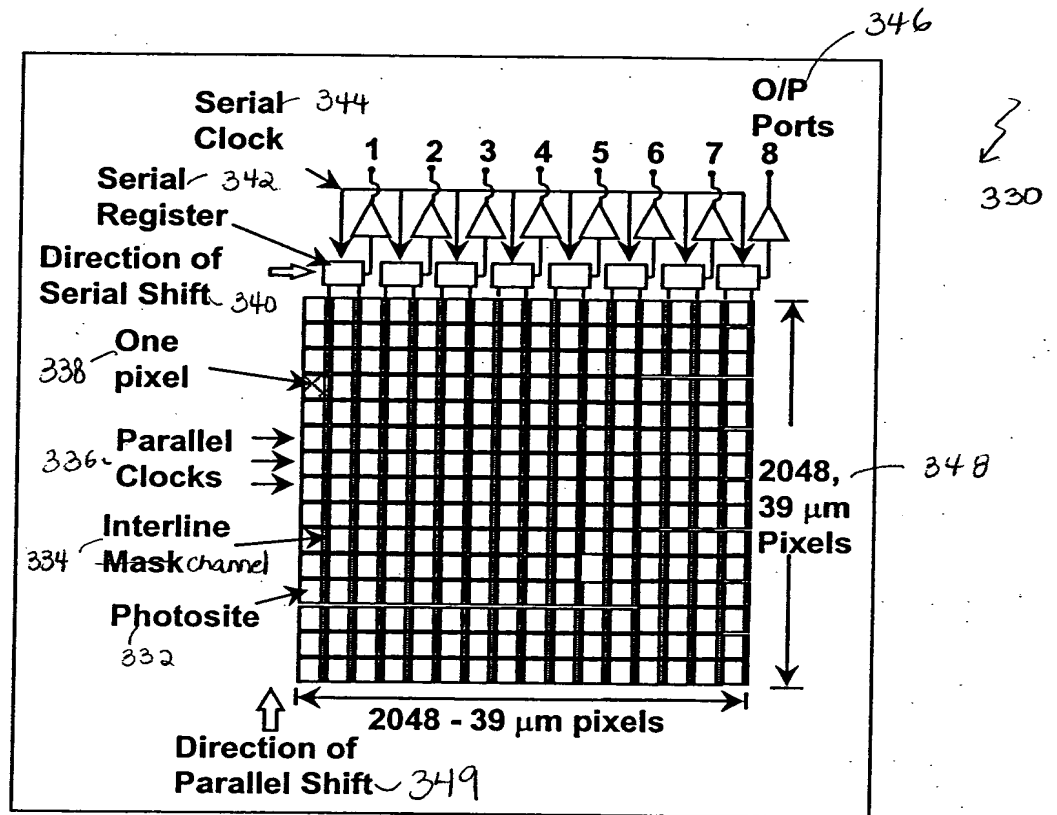


Figure 9C

350

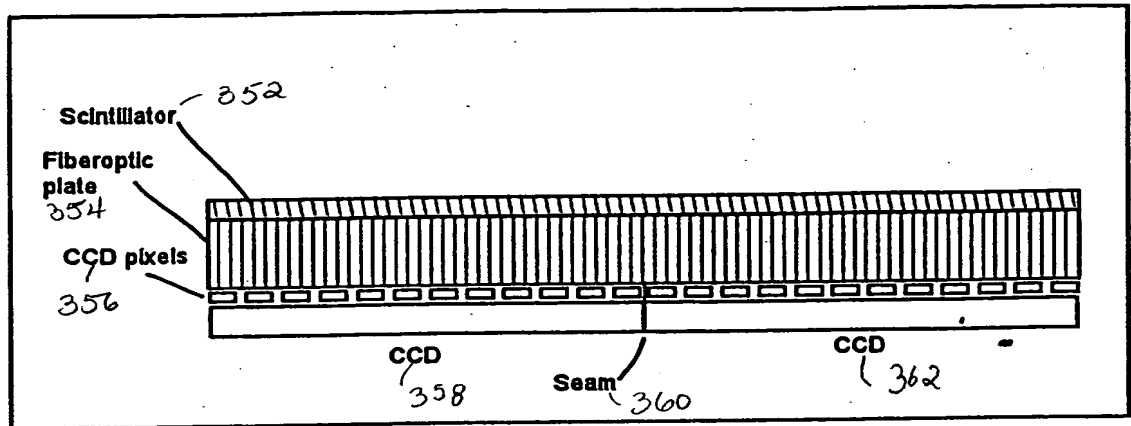


Figure 9D

370

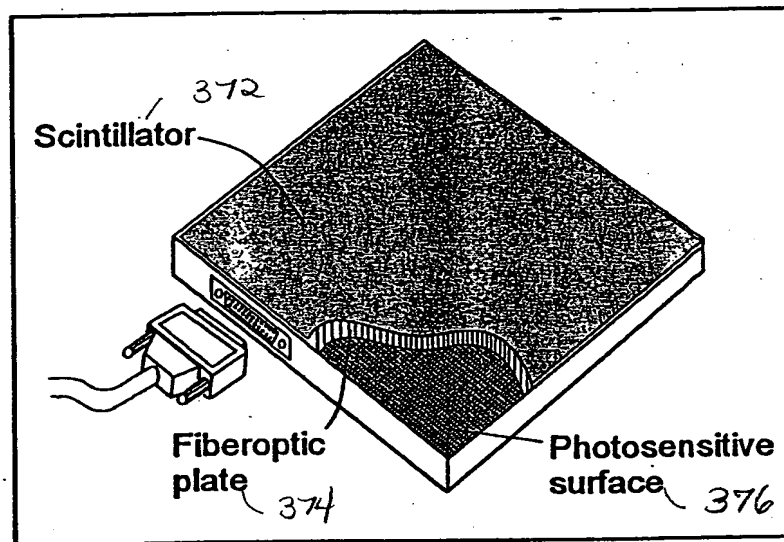


Figure 9E

380

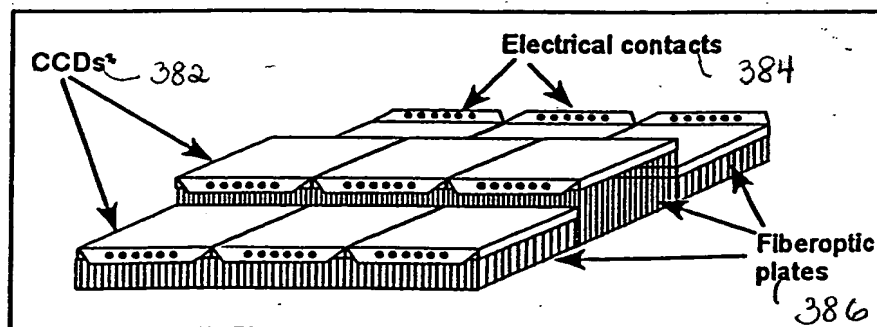


Figure 9F

0990880-112101

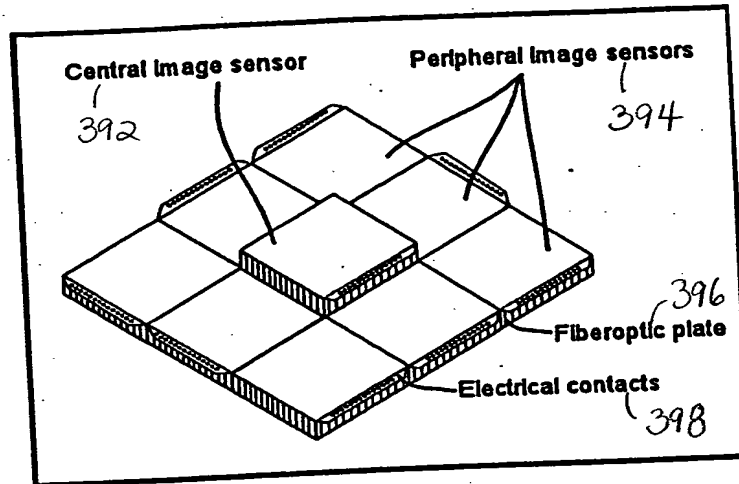


Figure 9G

09900880-112101

400

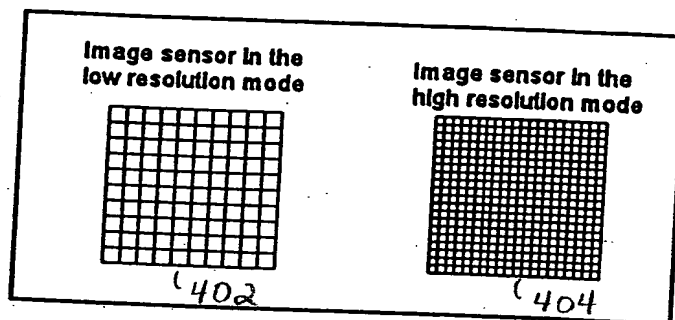


Figure 10A

410

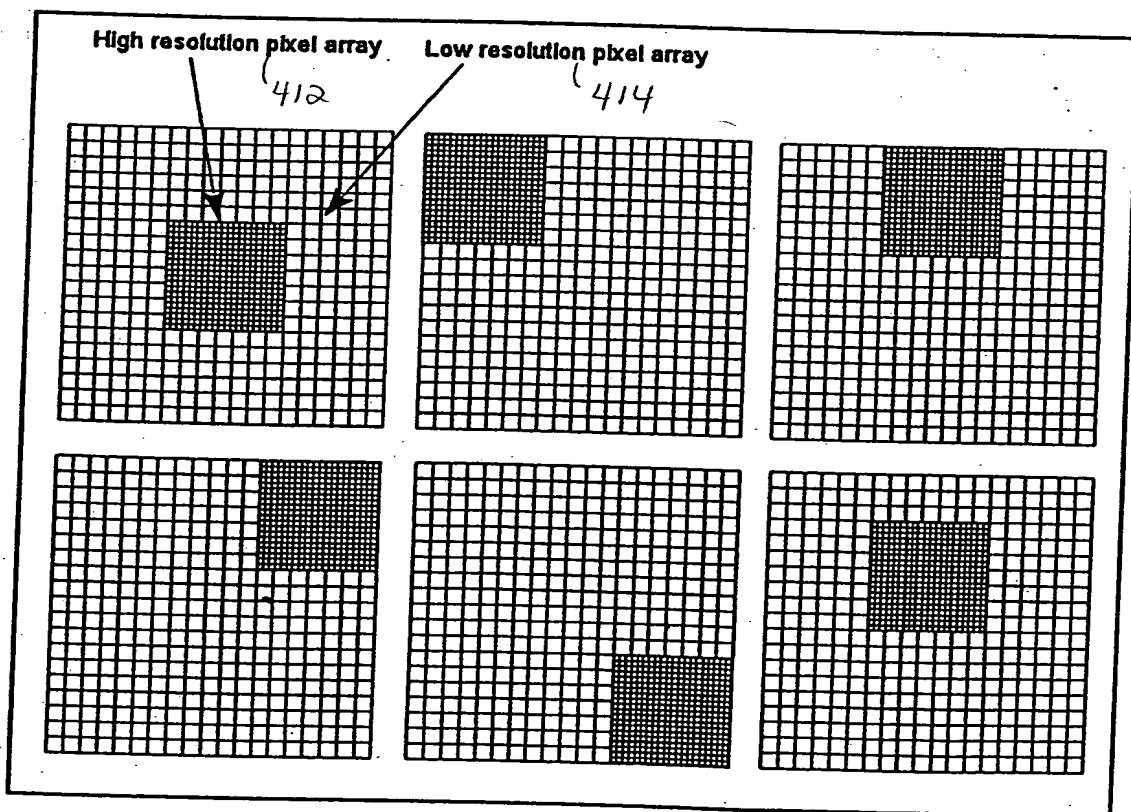


Figure 10B

09990880 112101

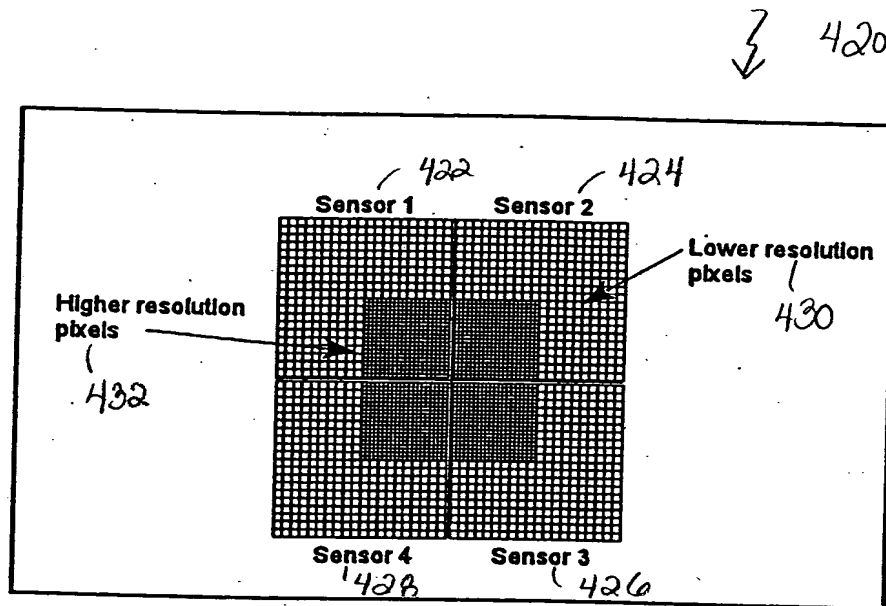


Figure 10c

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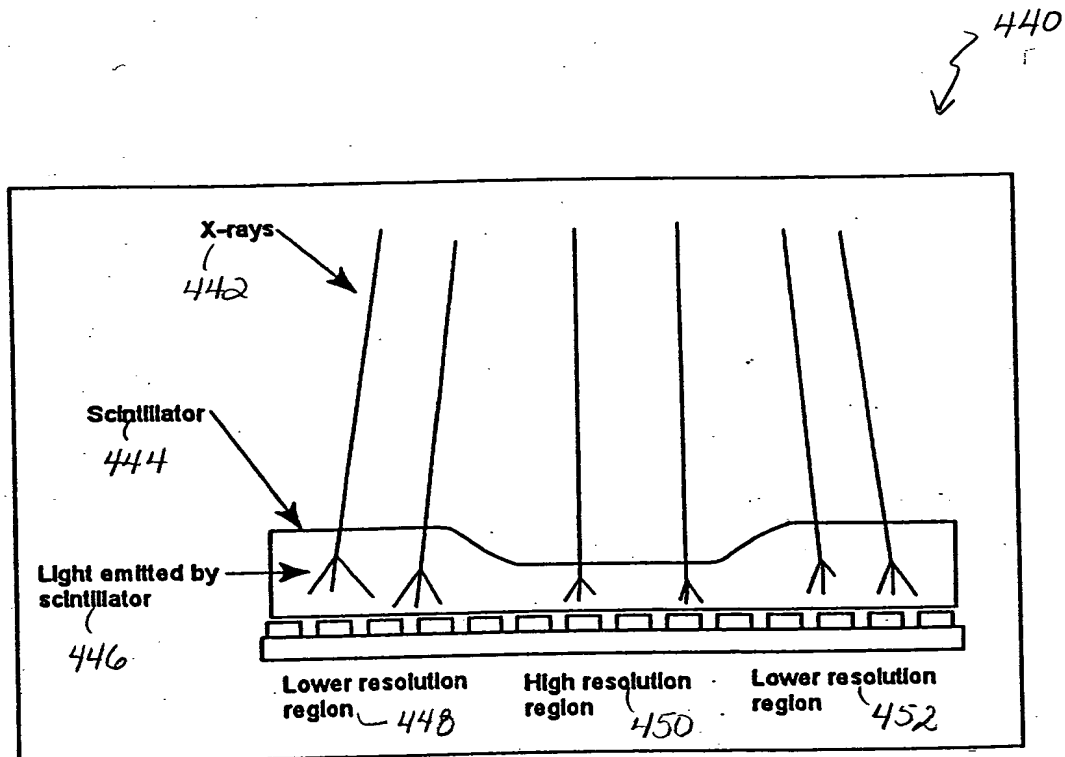


Figure 10D

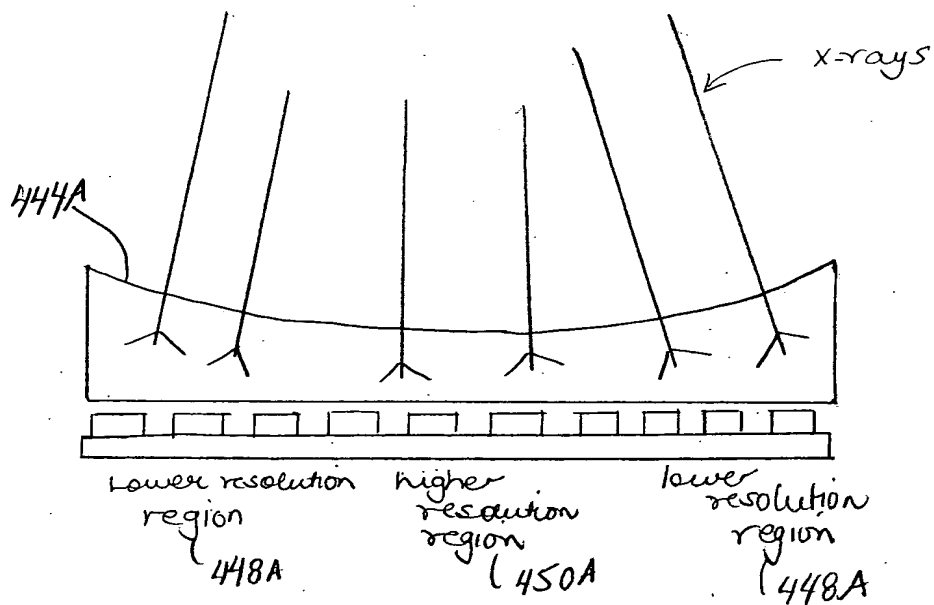
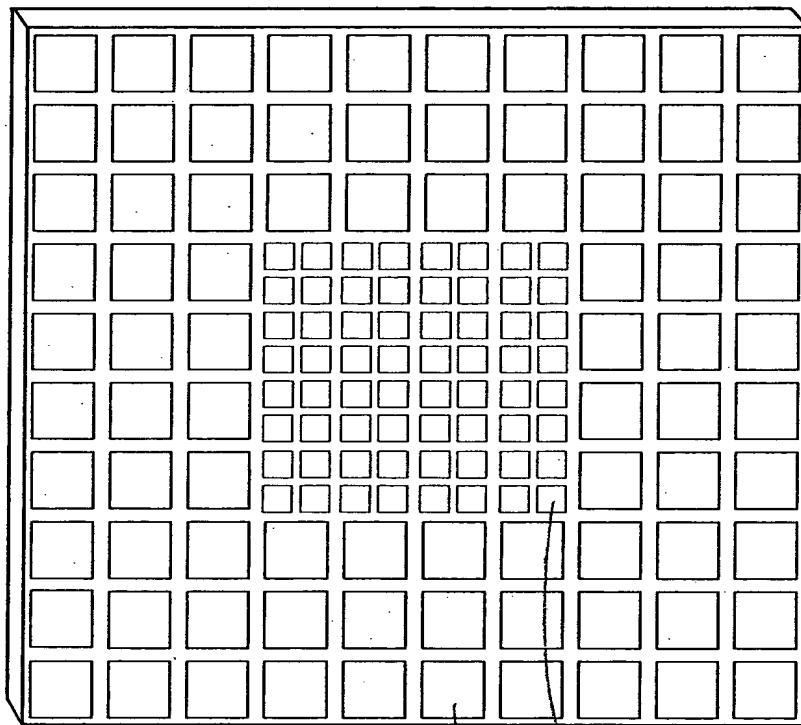


Figure 10E

101211 08806660

FIG. 10F

460



466

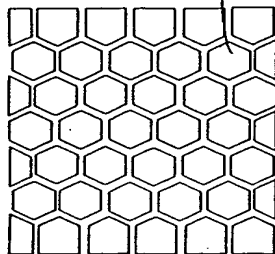


Figure 10G

Figure 10F

09990880 14101

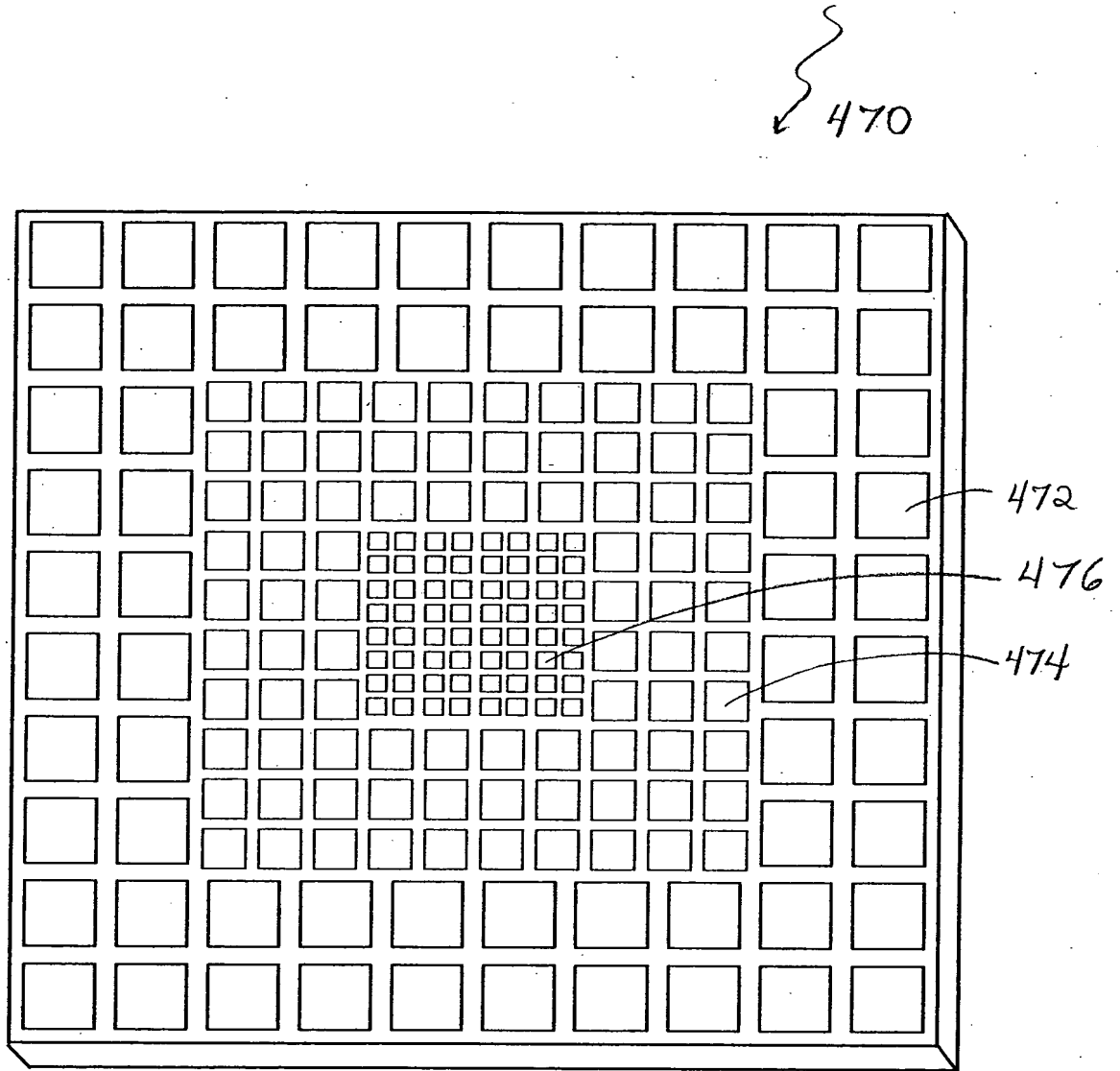


Figure 10H

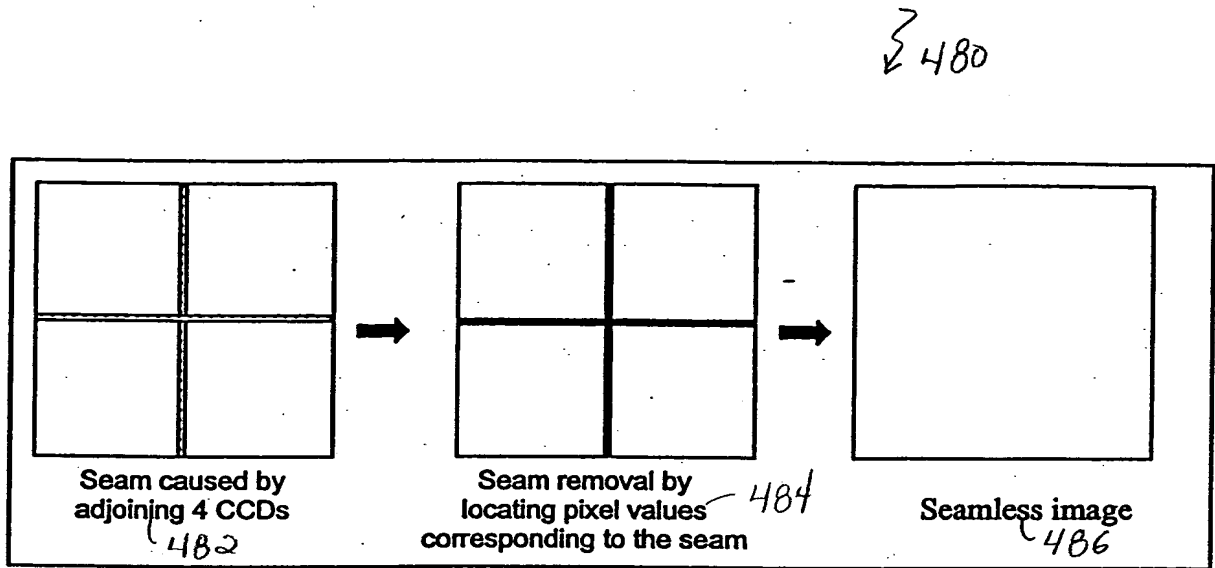


Figure 11

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500

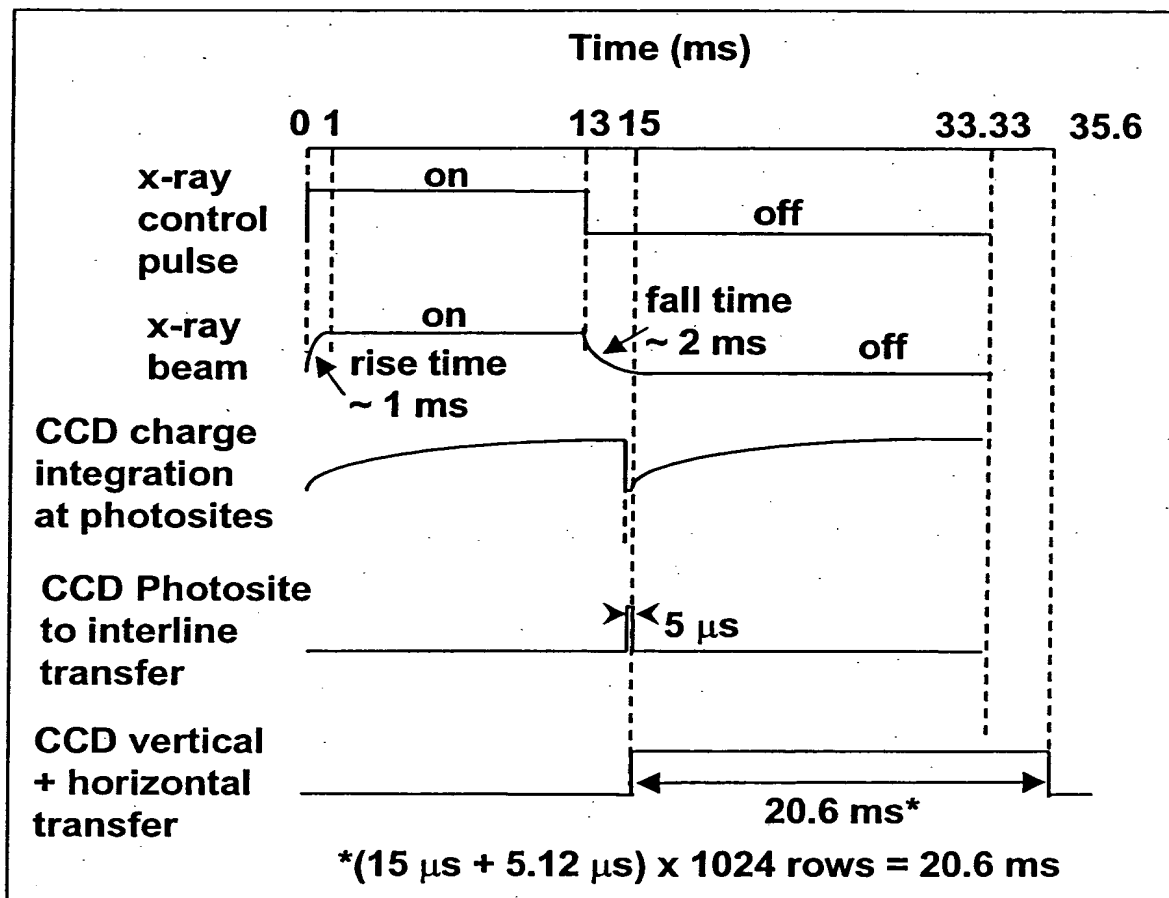


Figure 12

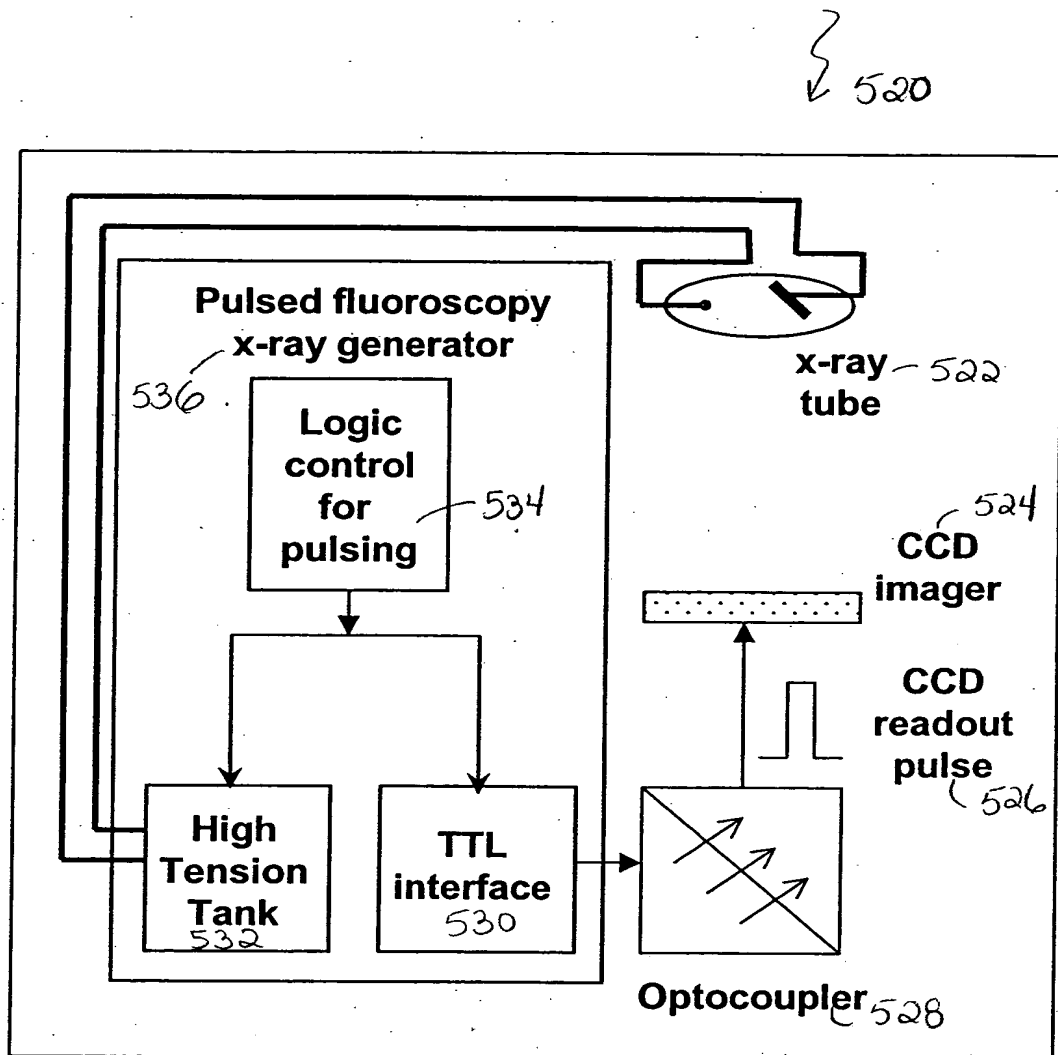


Figure 13

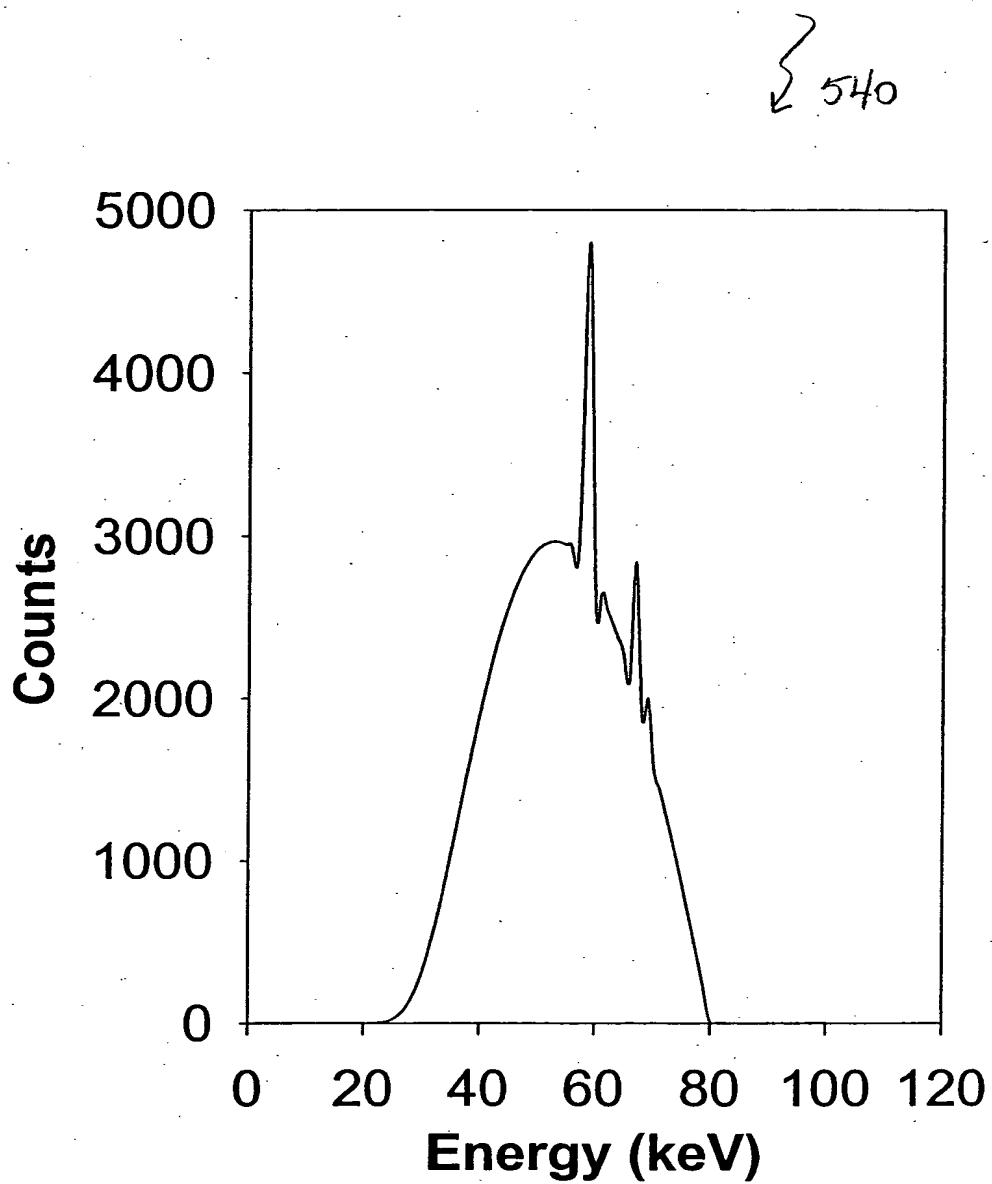


Figure 14

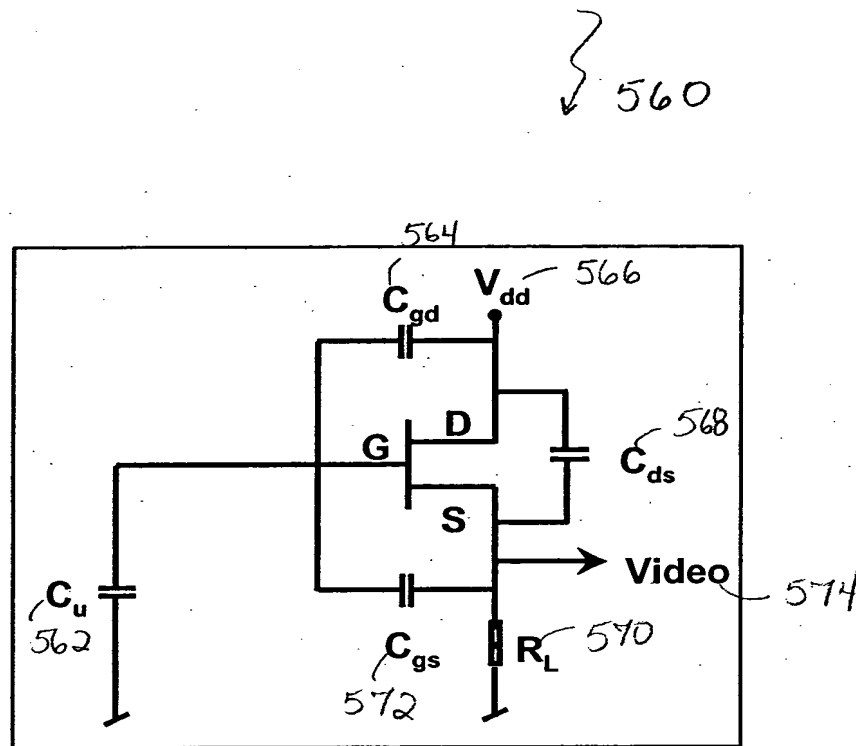


Figure 15

095088011010950880660

580

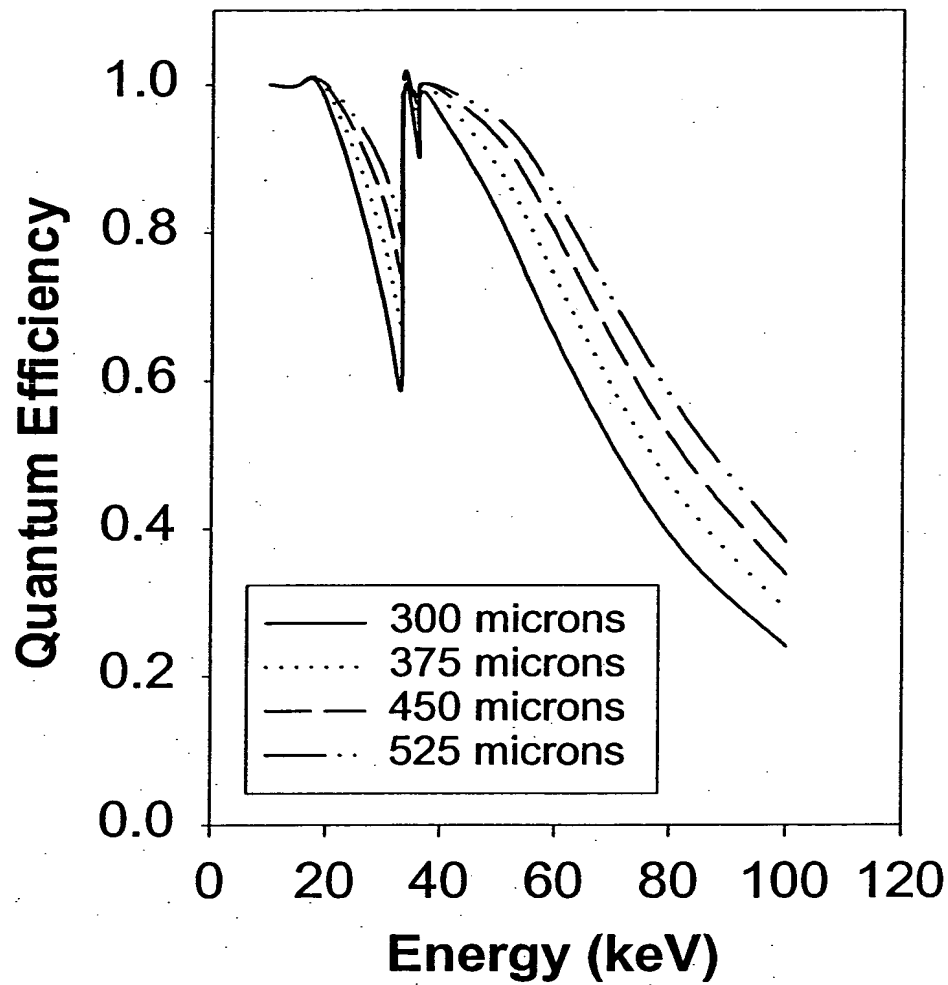


Figure 16

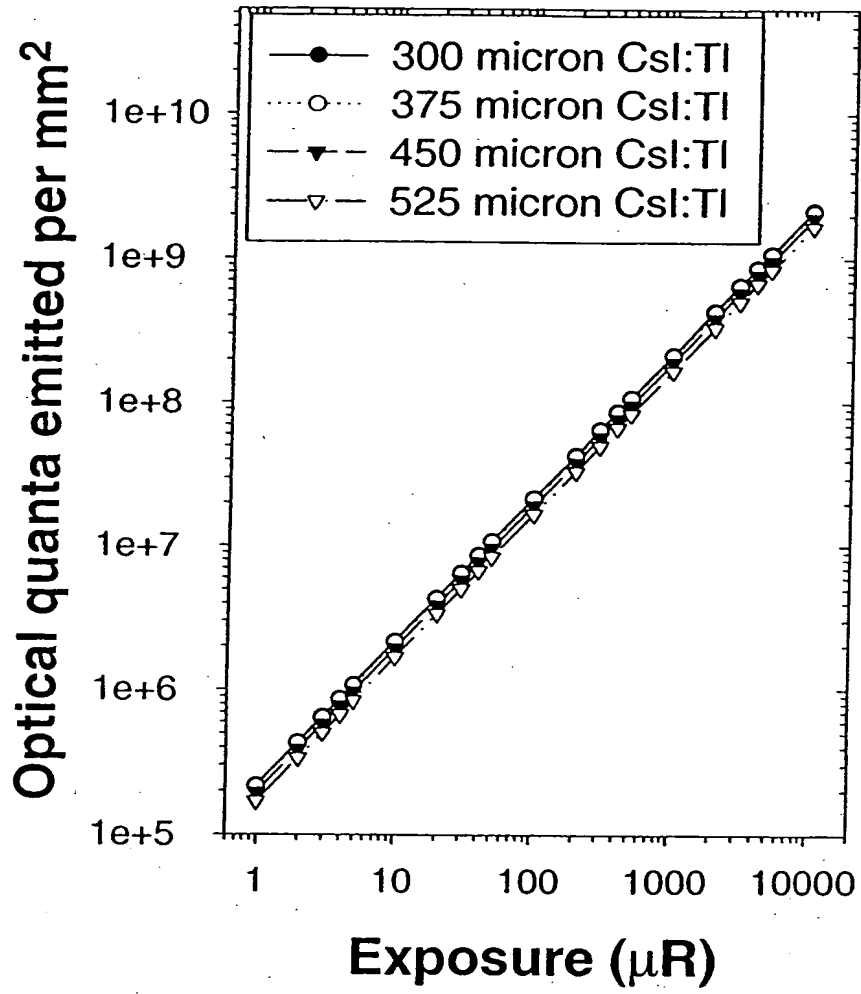
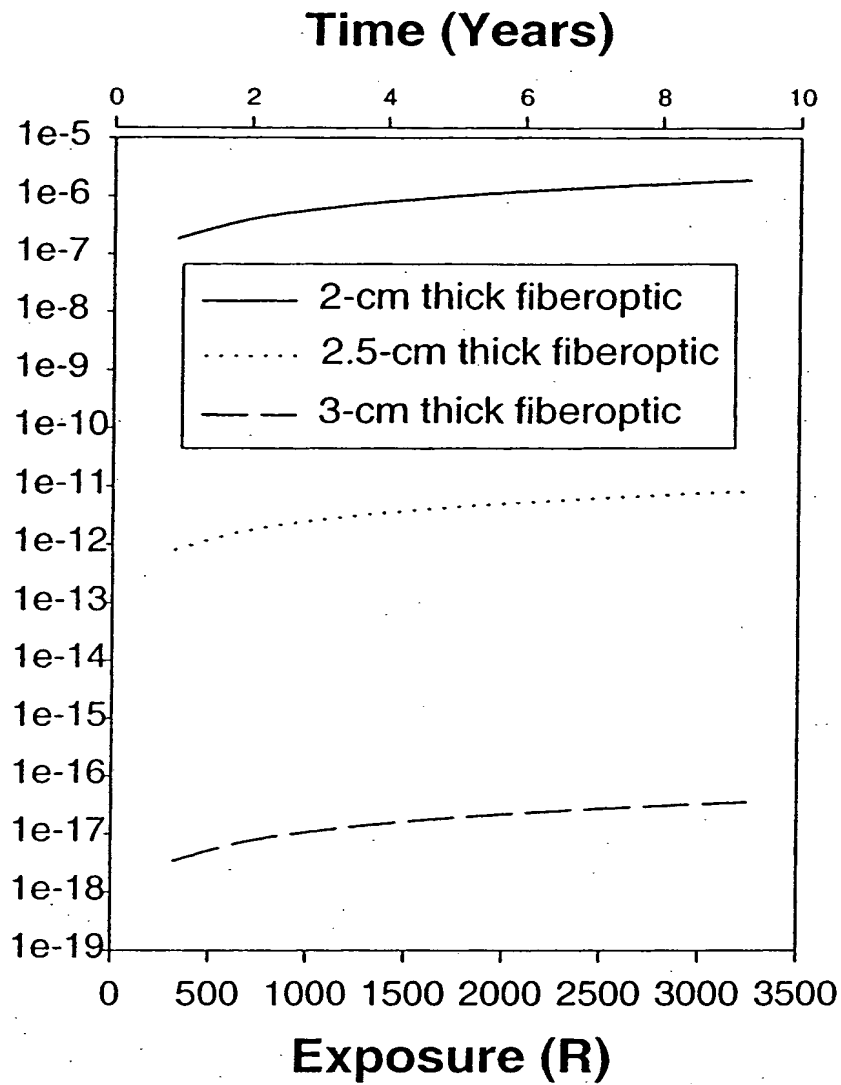


Figure 17

Photons incident over the 16 x 16 cm CCD



620

Figure 18

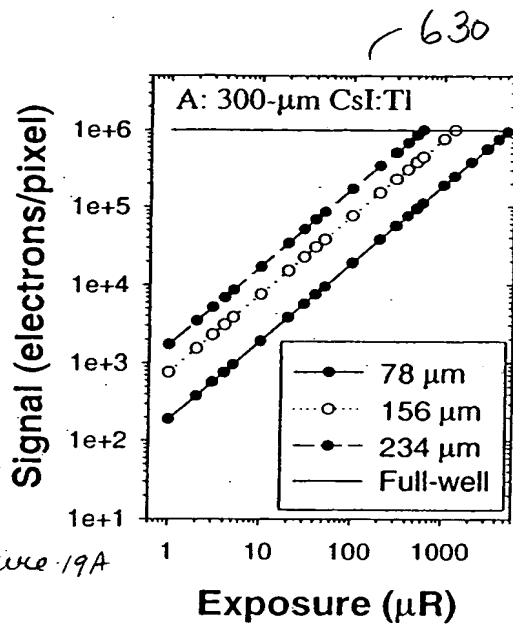


Figure 19A

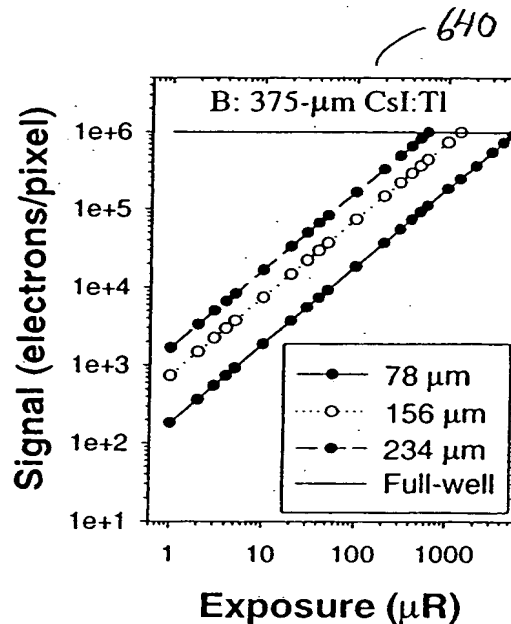


Figure 19B

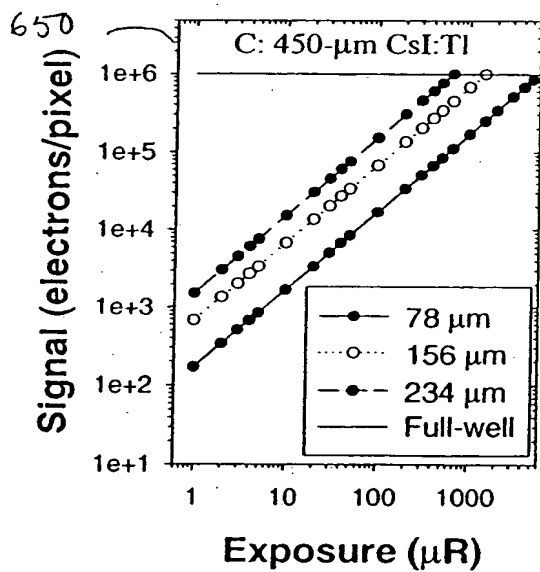


Figure 19C

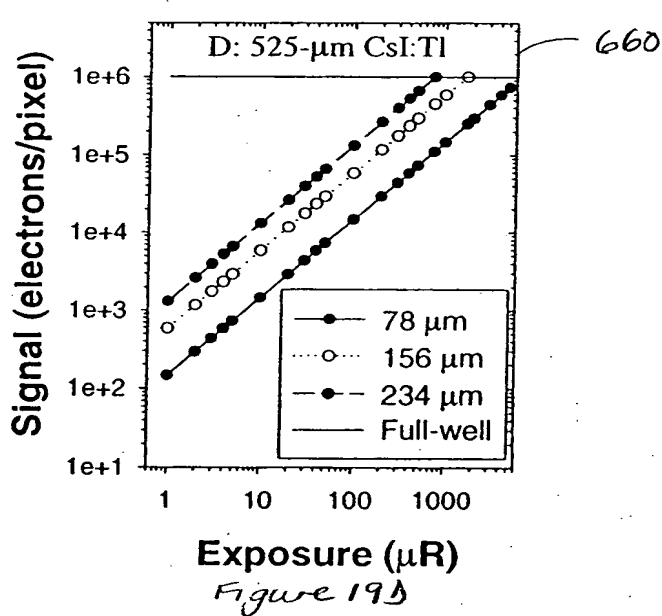
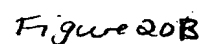
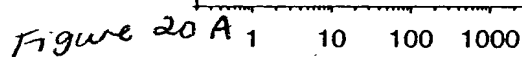


Figure 19D

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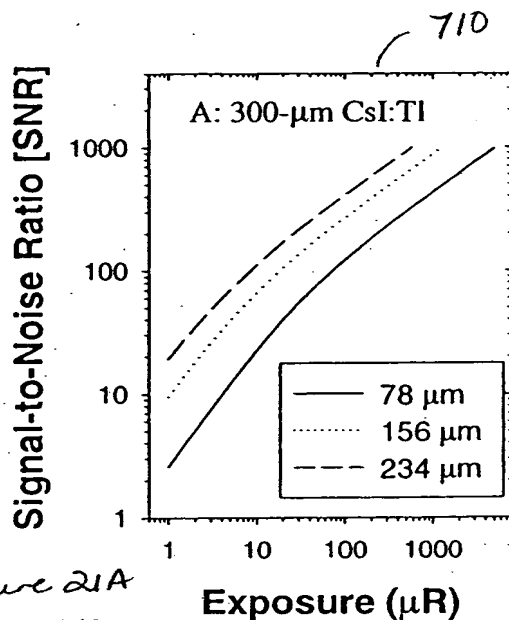


Figure 21A

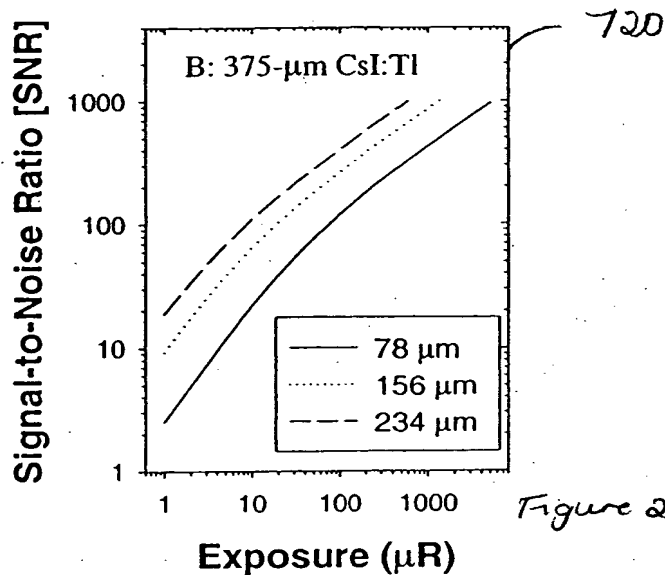


Figure 21B

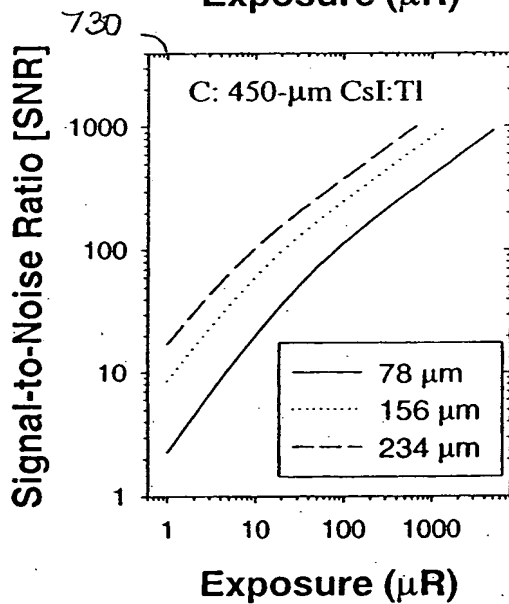


Figure 21C

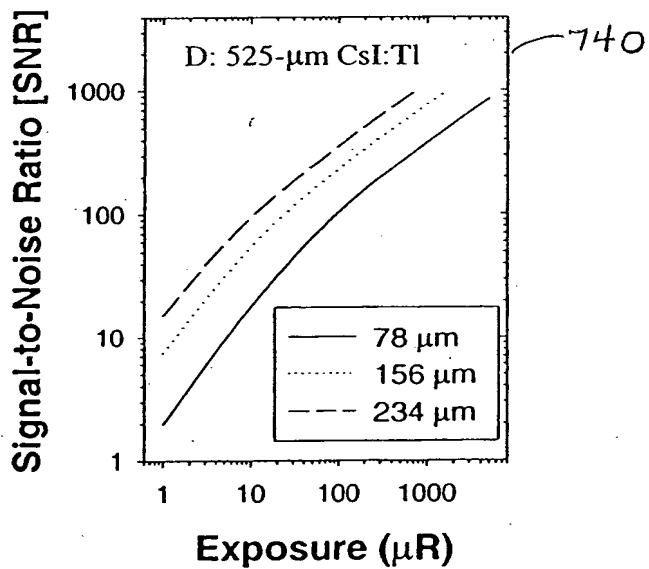


Figure 21D

750

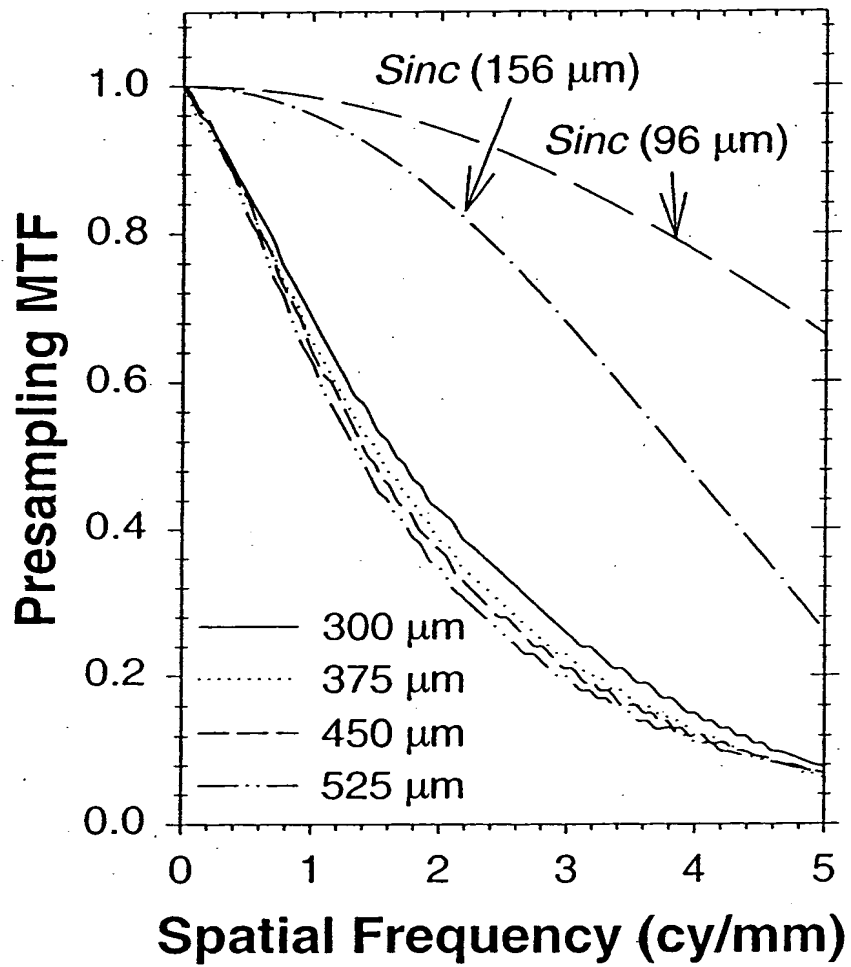
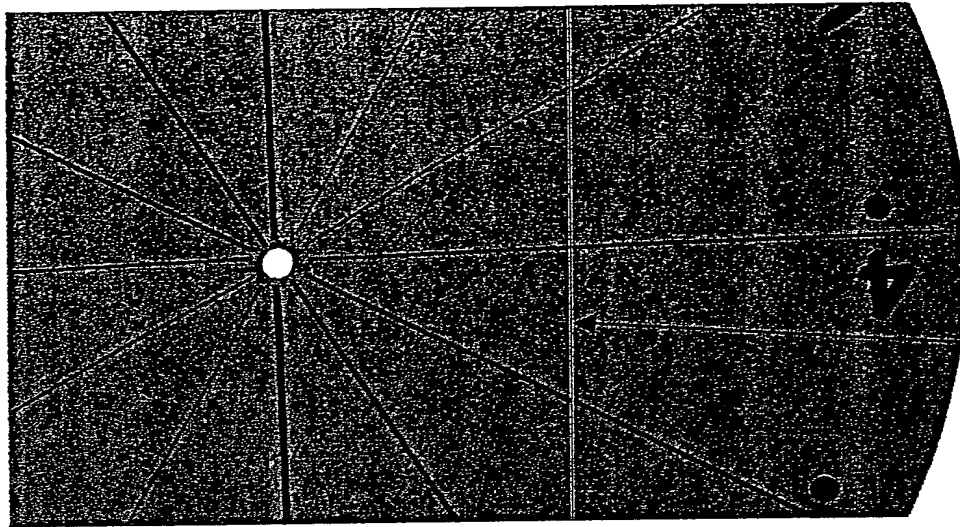


Figure 22

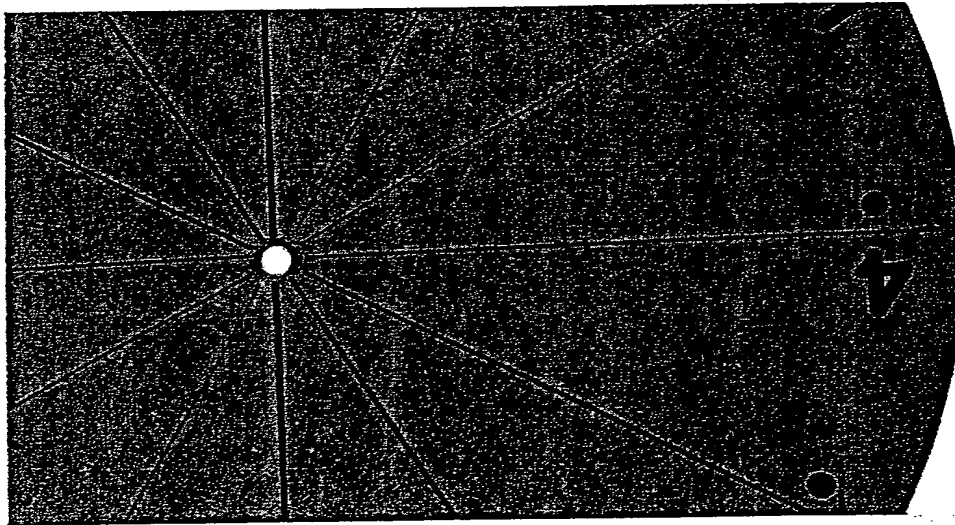


(A)

760

Seam 762

Figure 23A



(B)

770

Figure 23B

09990880 112101

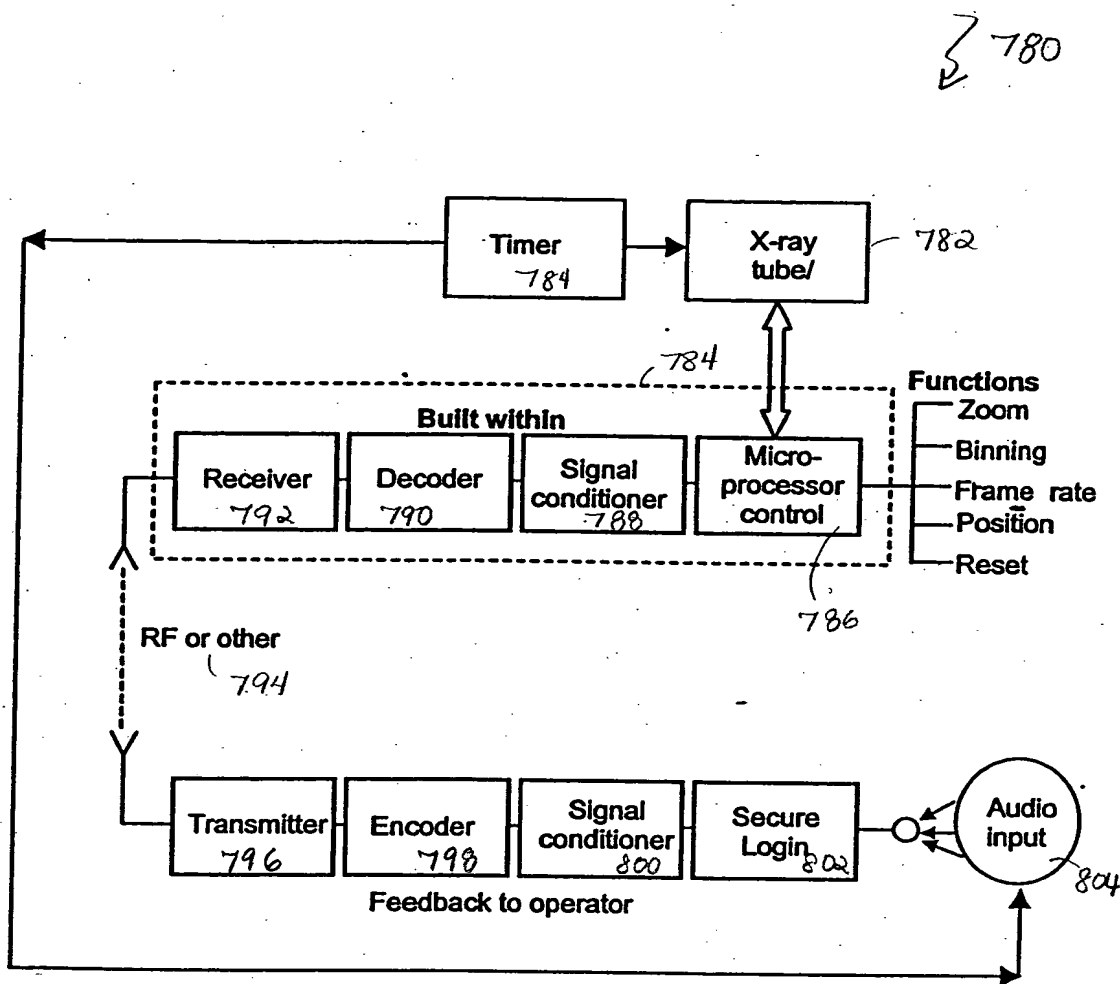


Figure 24

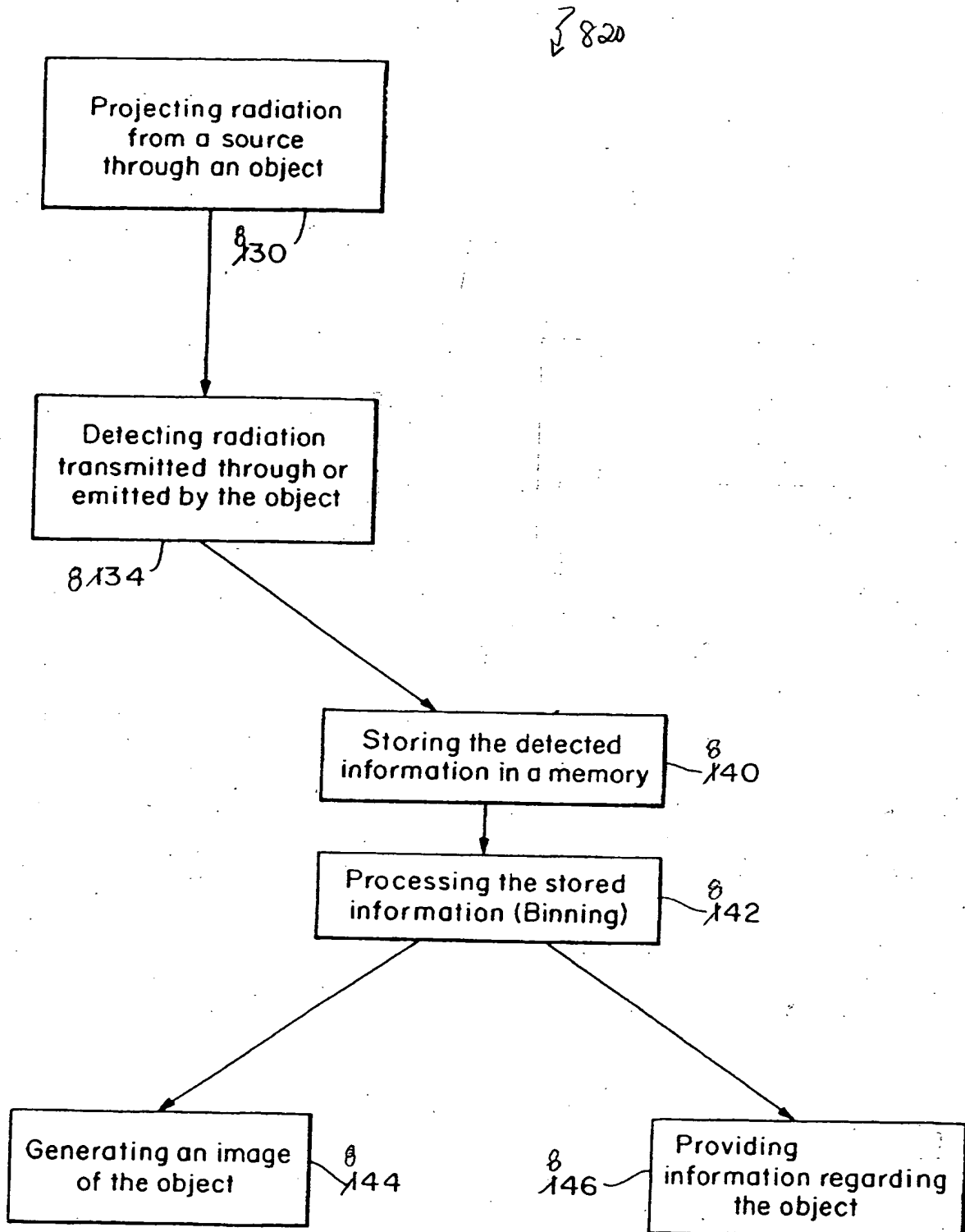


Figure 25A

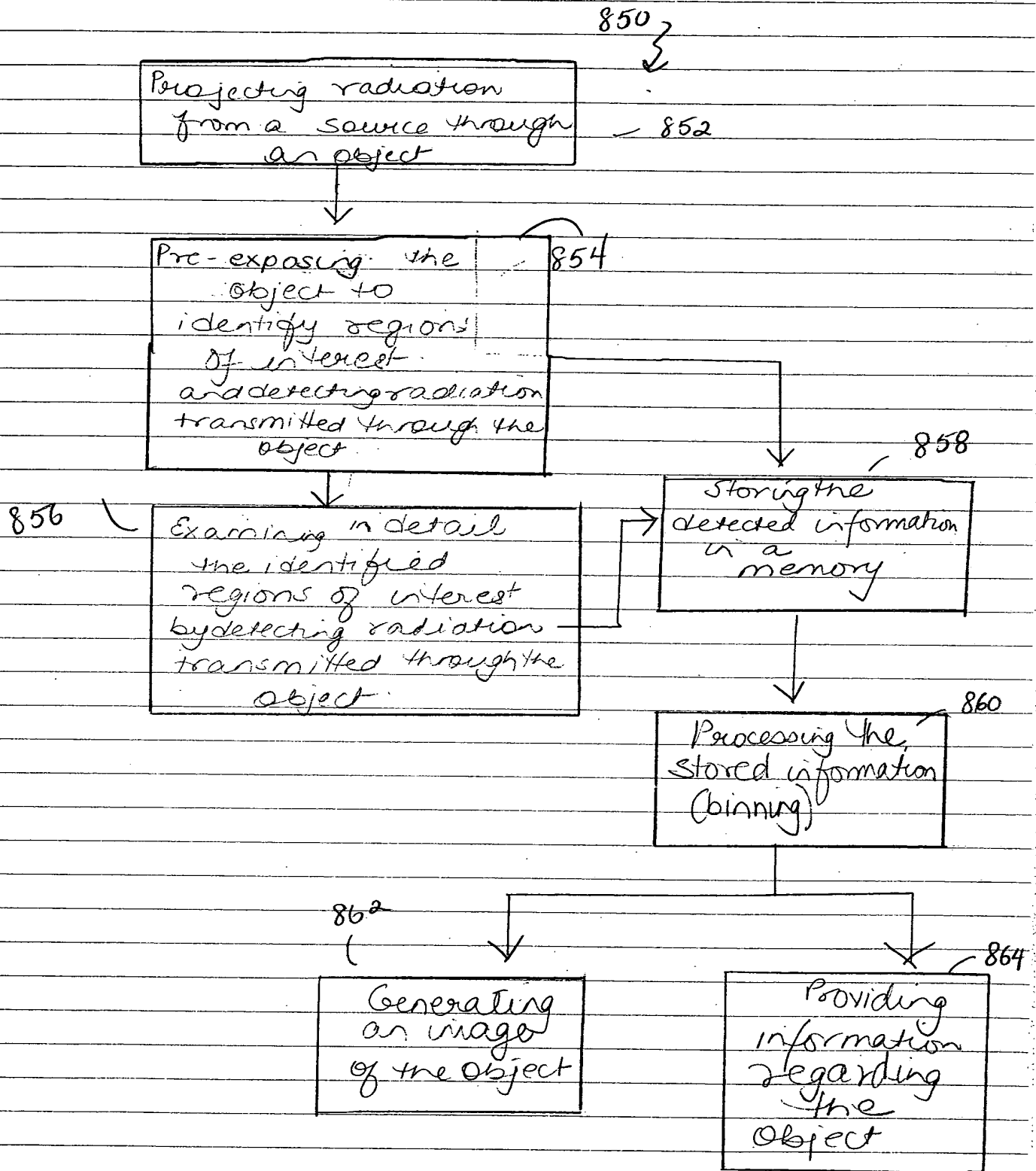


Figure 25B

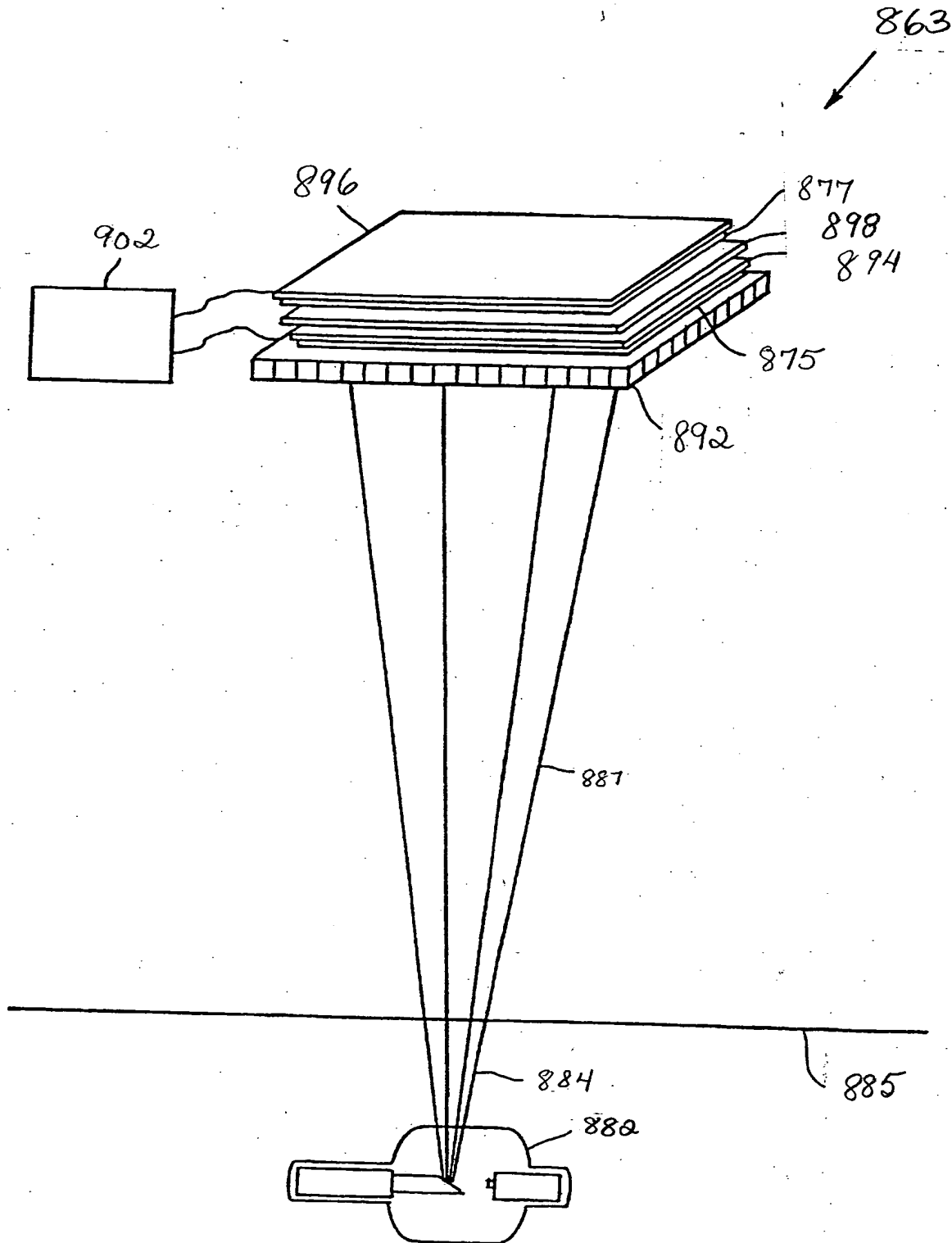


Figure 26 A

0990880 112101

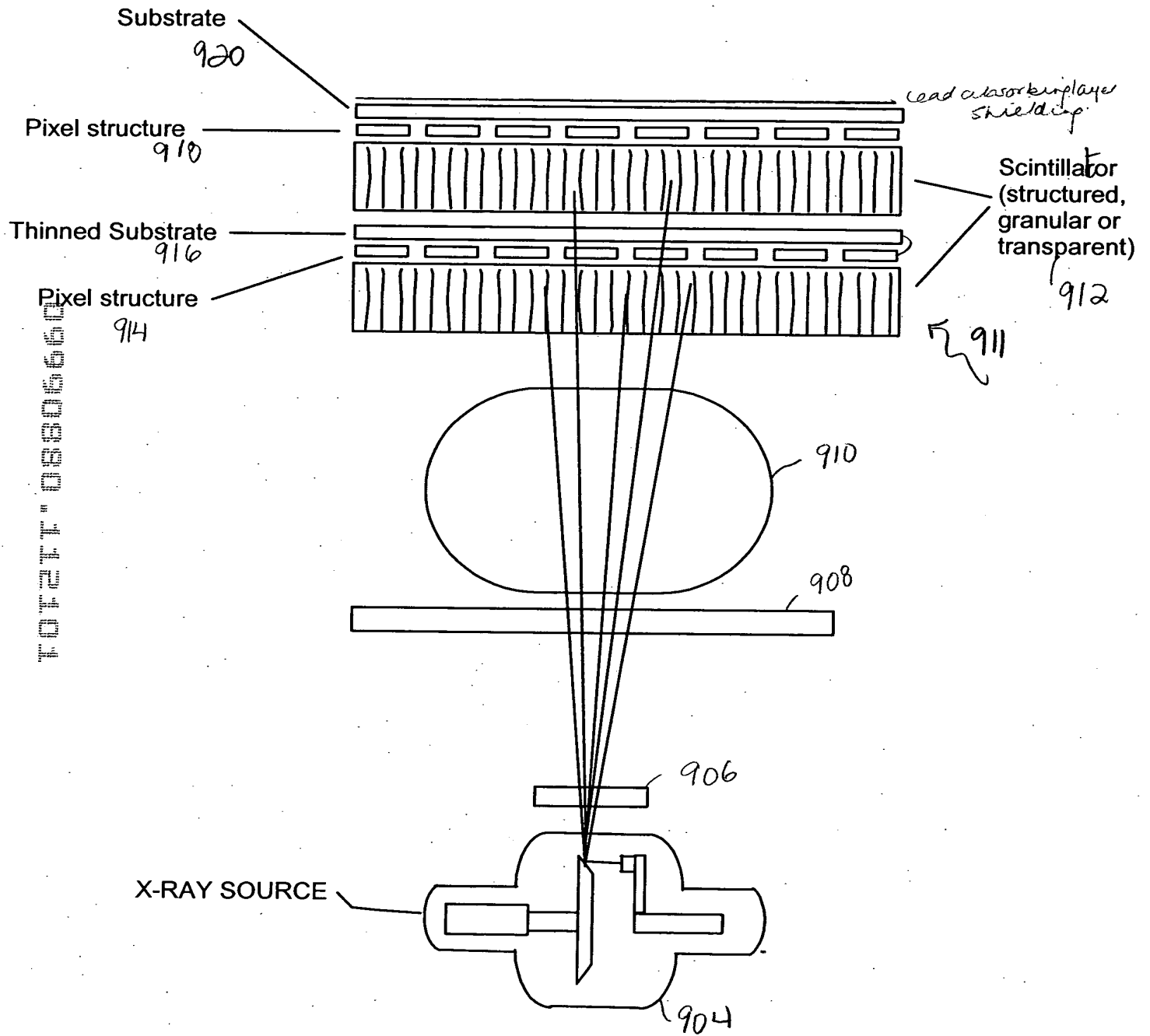


Figure 26B

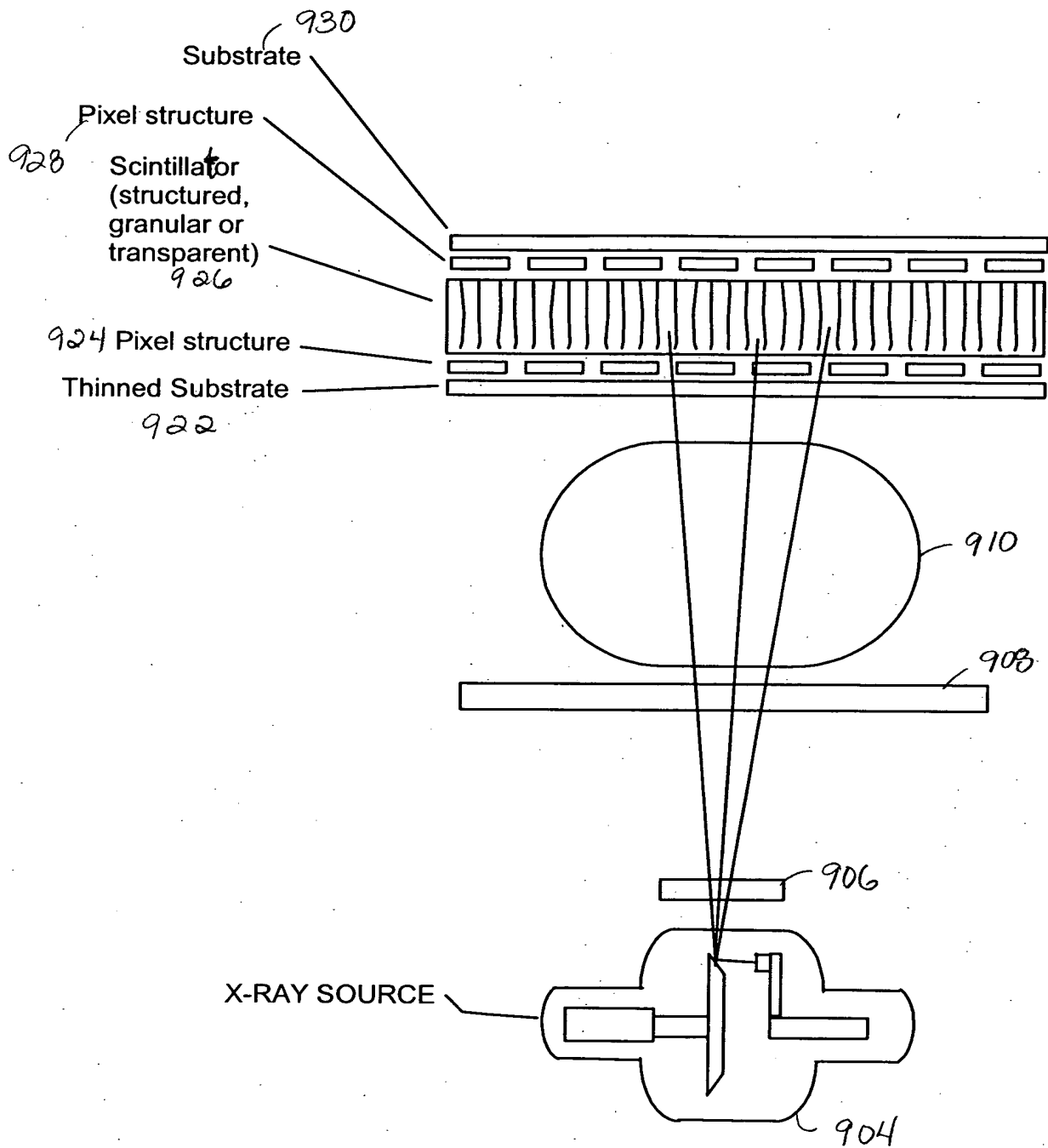


Figure 26C

FIG. 26C

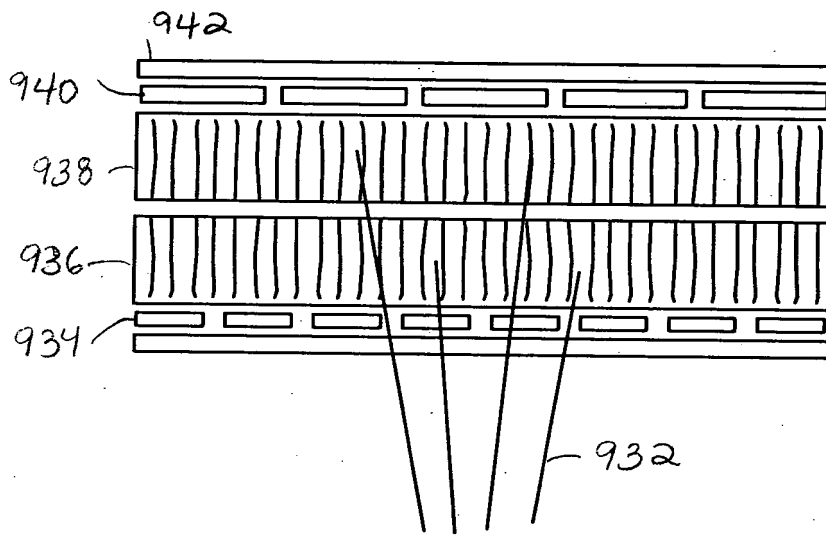


Figure 26D

FIG. 26D

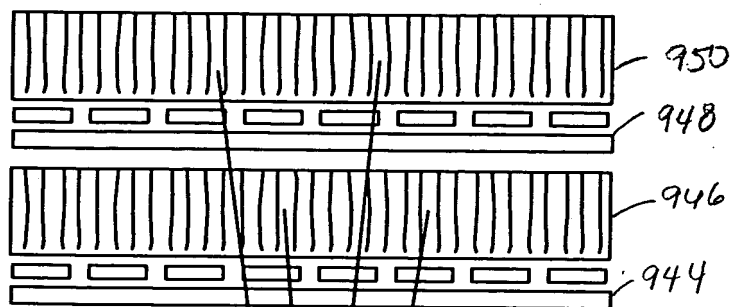


Figure 26E

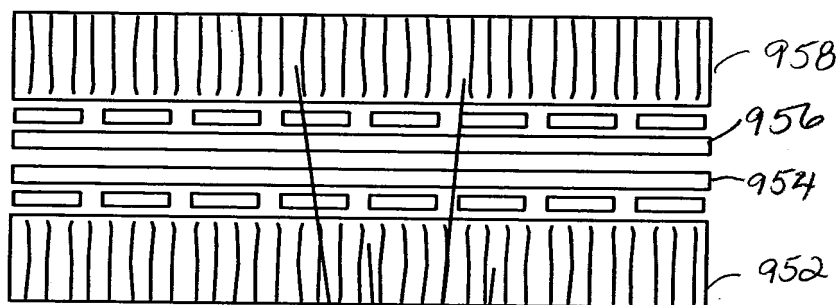


Figure 26F

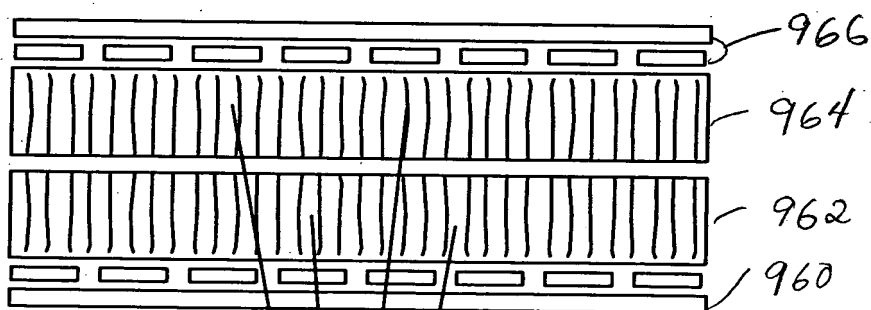


Figure 26G

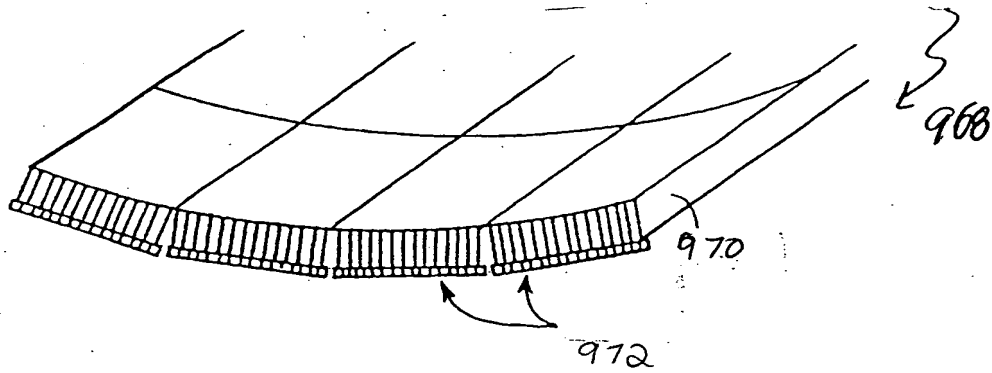


Figure 27

0990880 44101

980

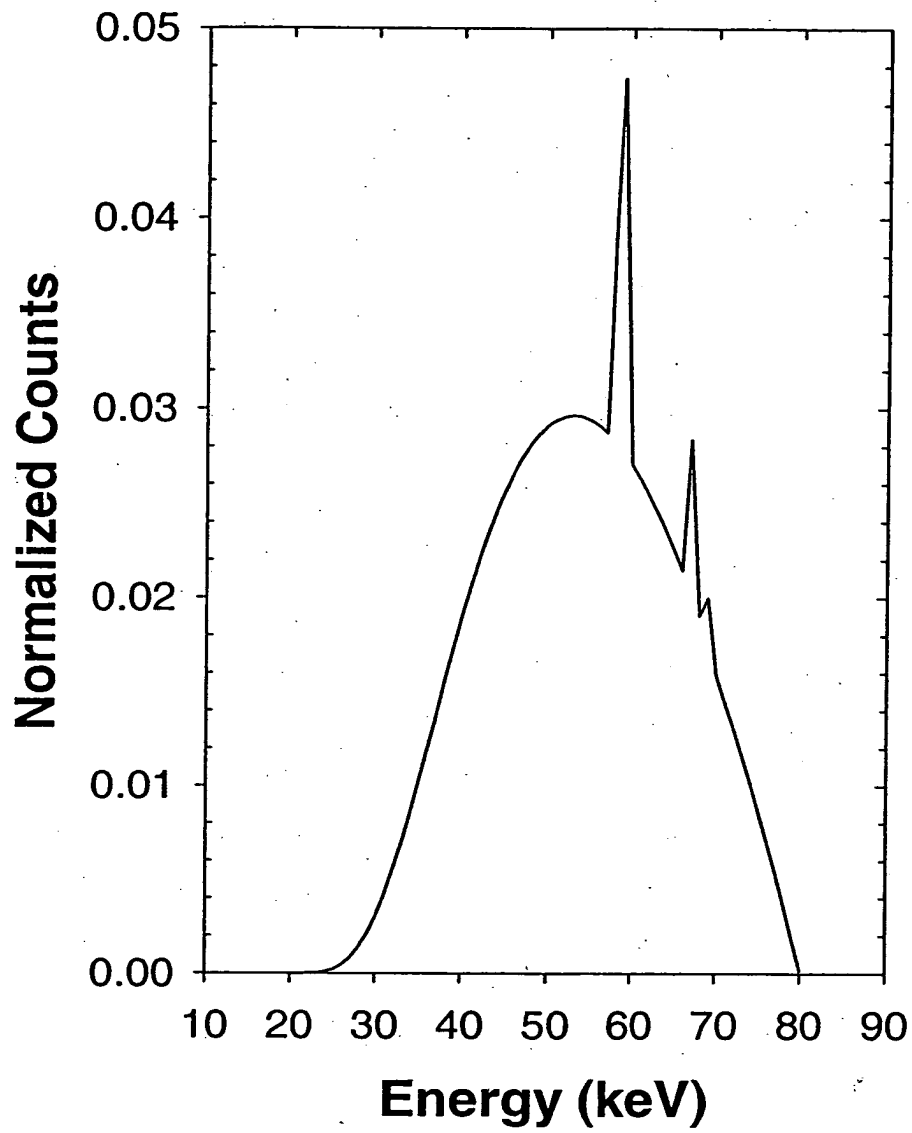


Figure 28

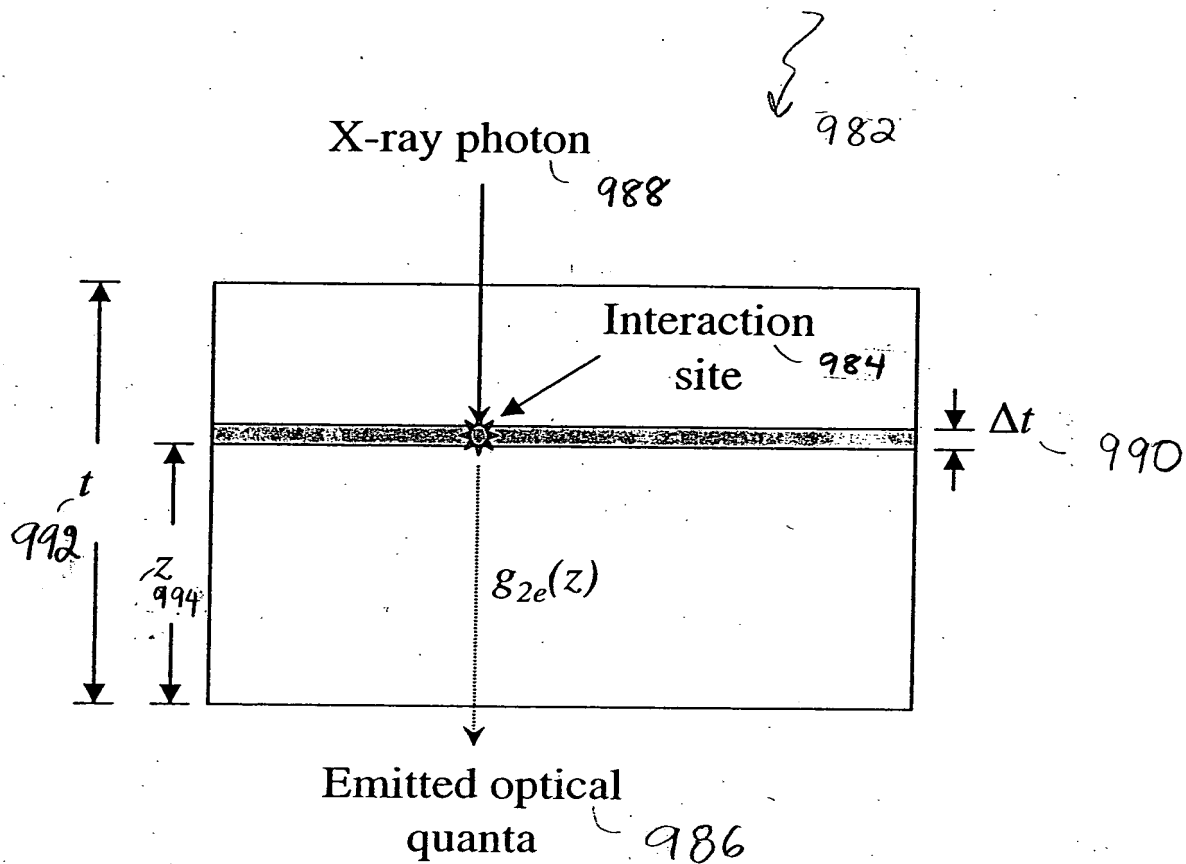


Figure 29

0990380 112101

994

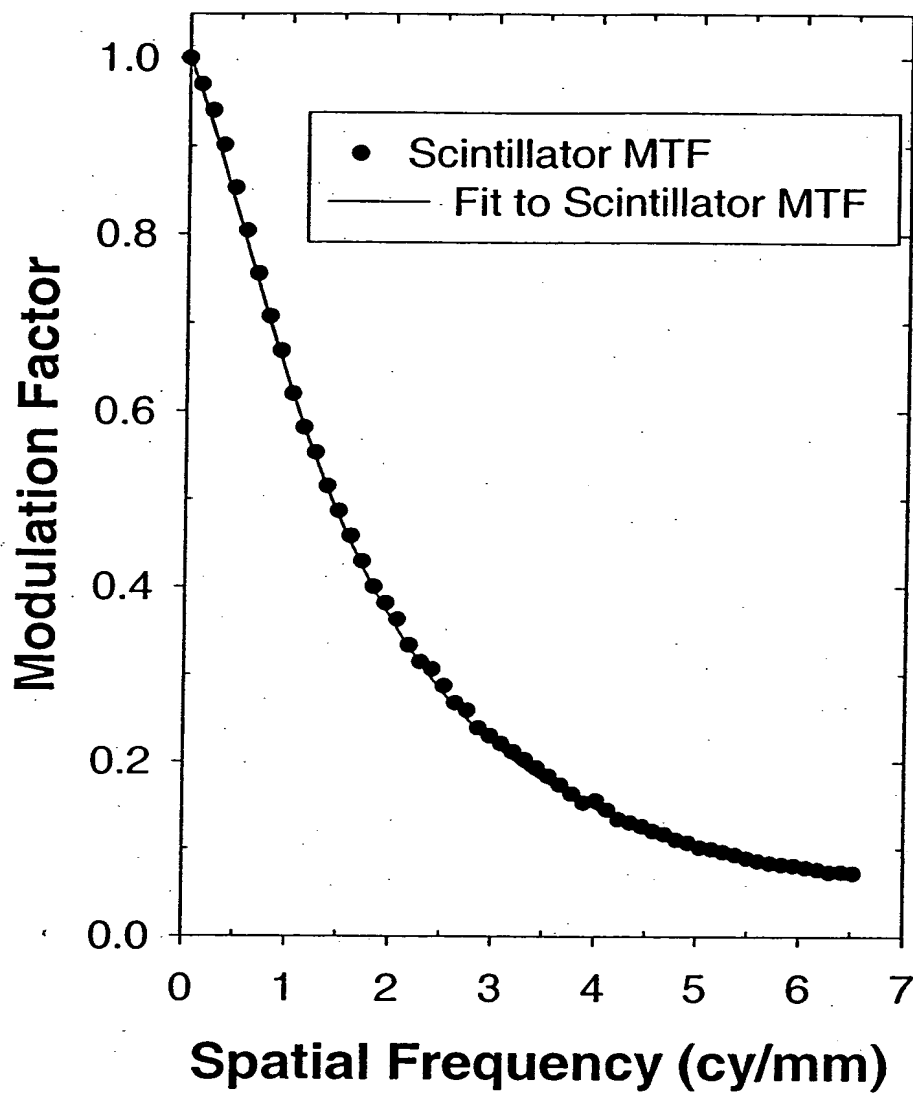


Figure 30

2996

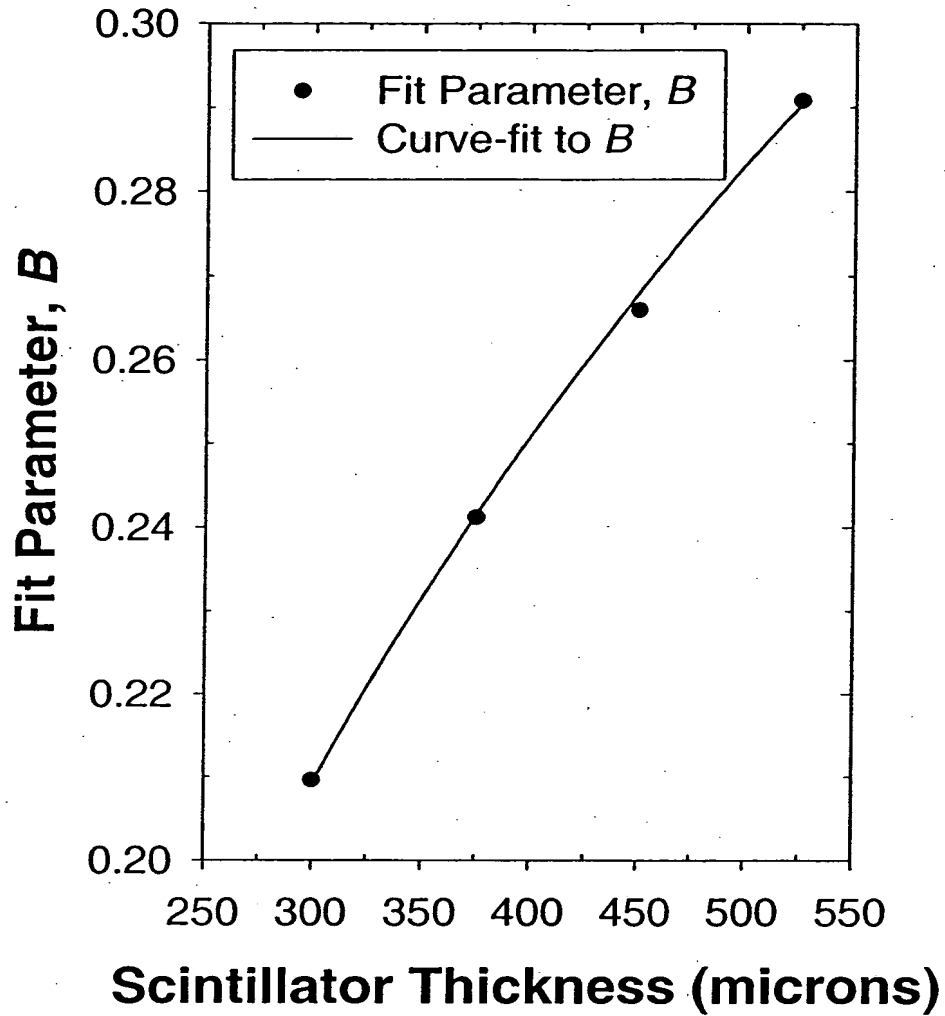
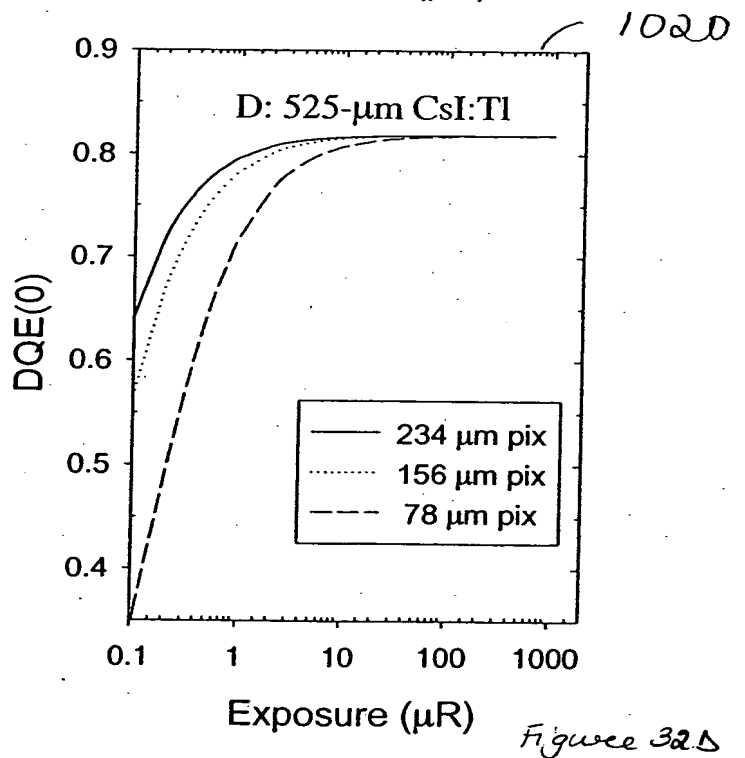
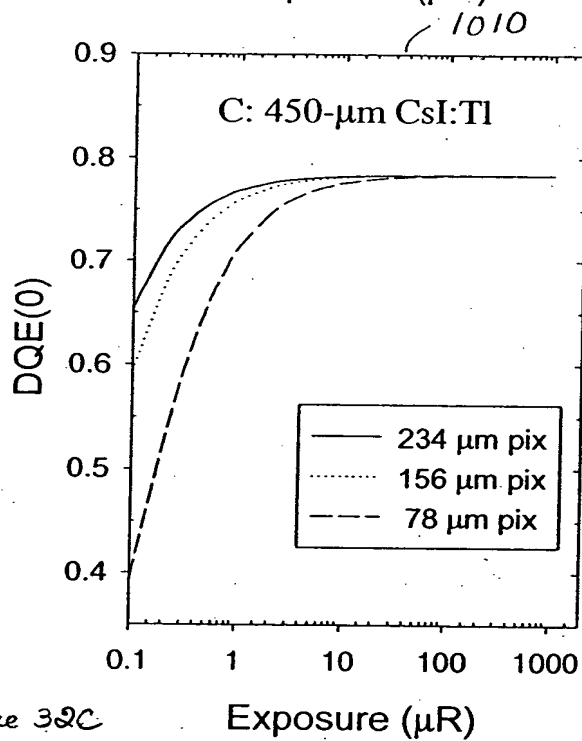
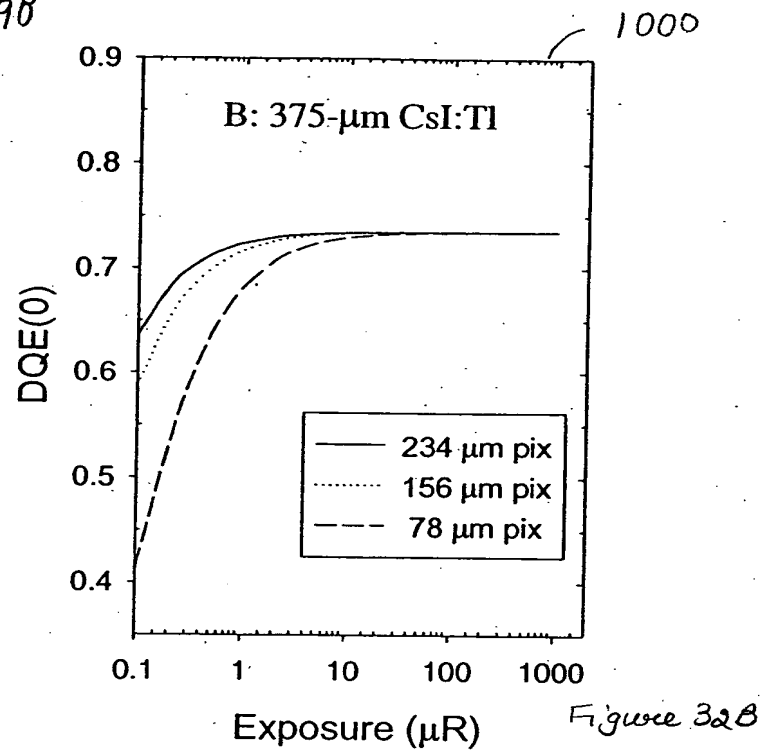
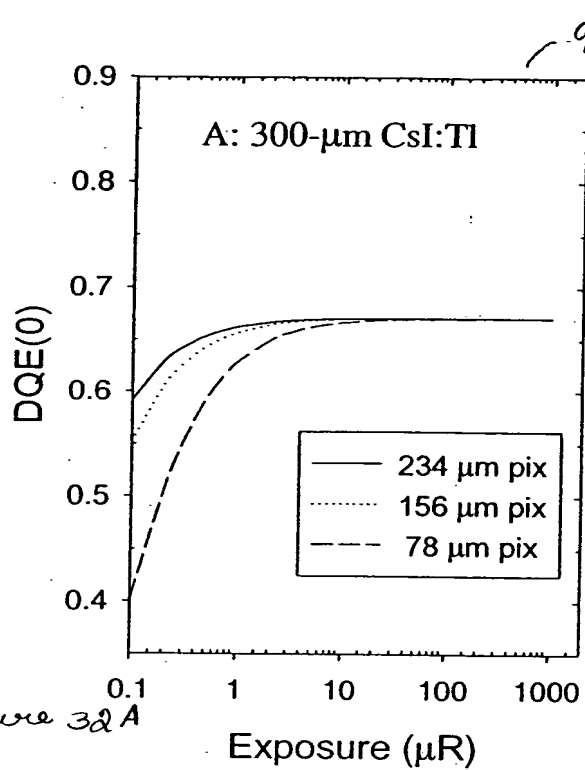


Figure 3:1



1030

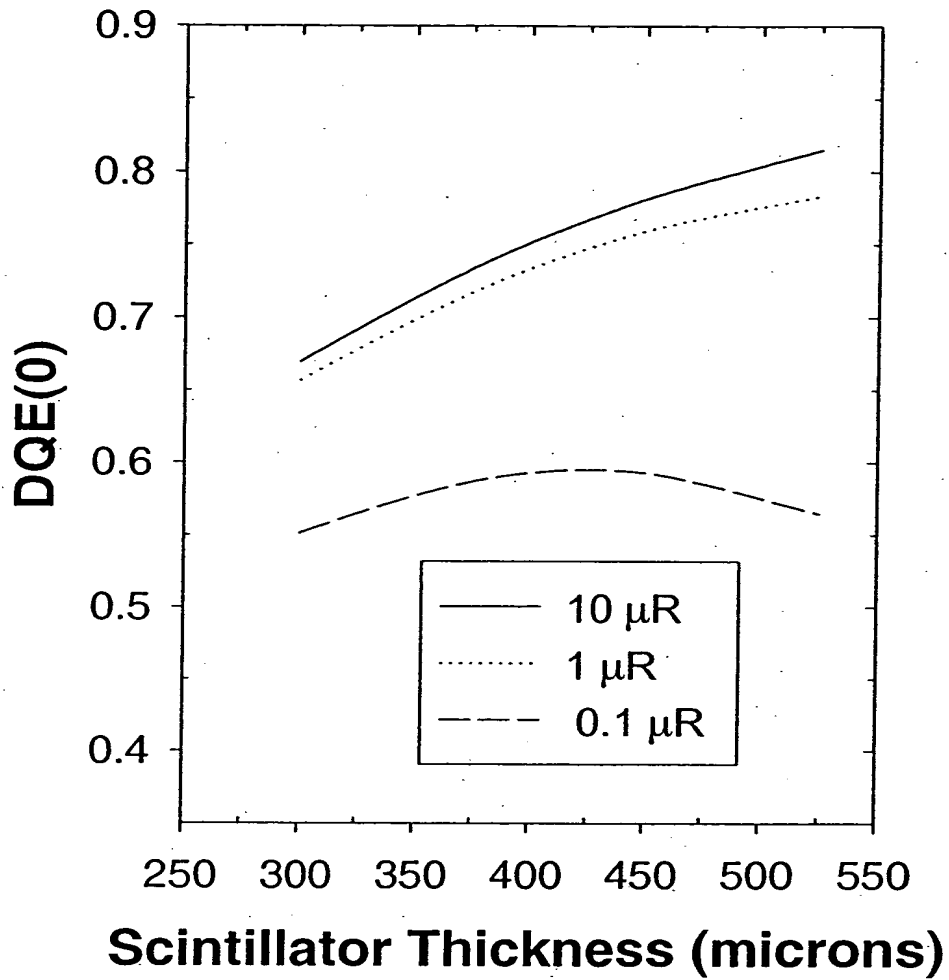


Figure 33

1040

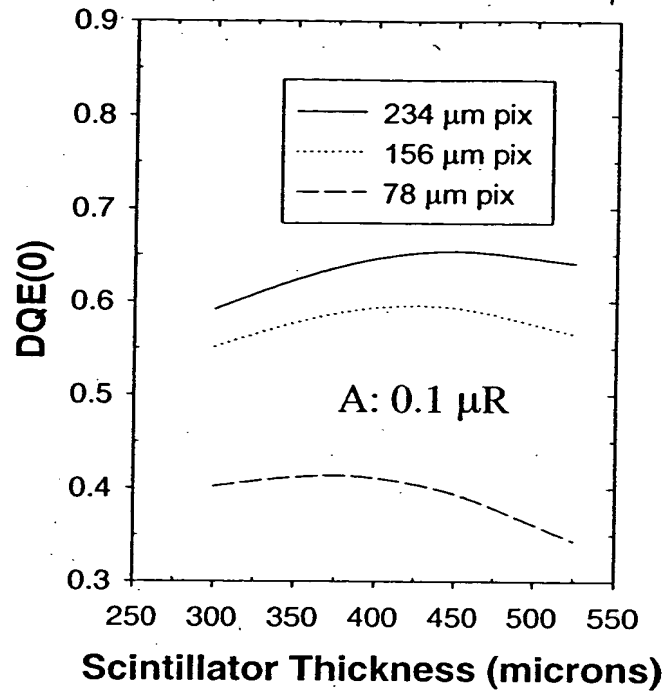
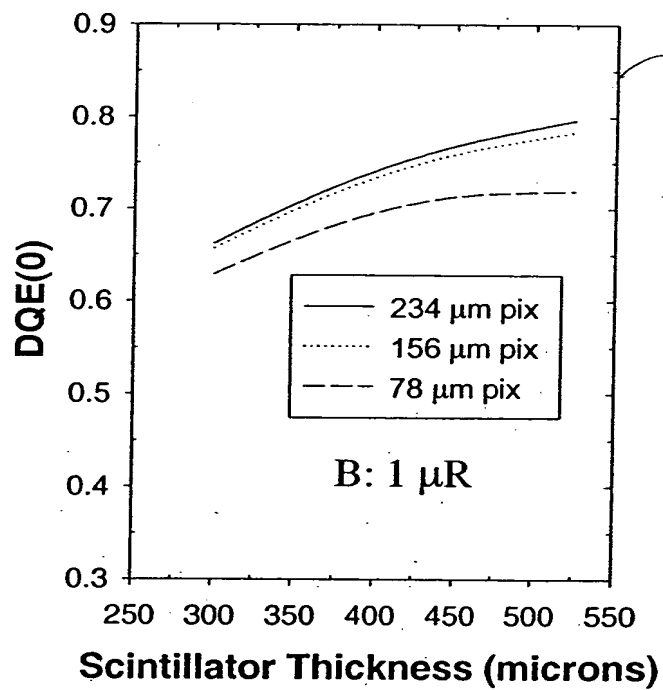


Figure 34A



1050

Figure 34B

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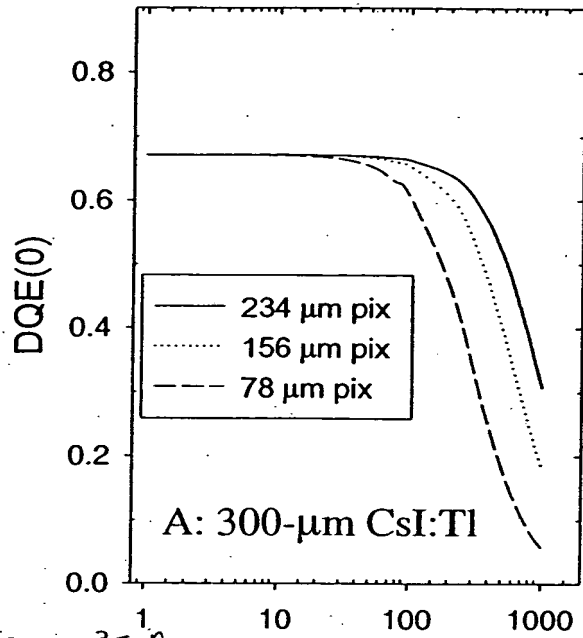


Figure 35A

Additive Noise, σ_{add} (electrons)

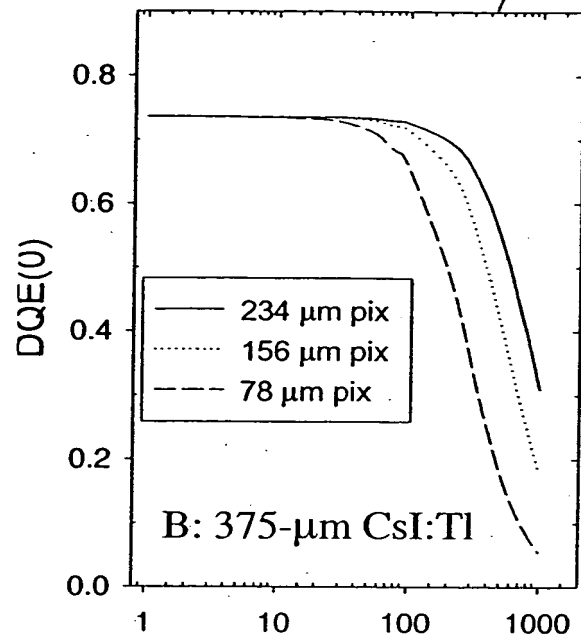


Figure 35B

Additive Noise, σ_{add} (electrons)

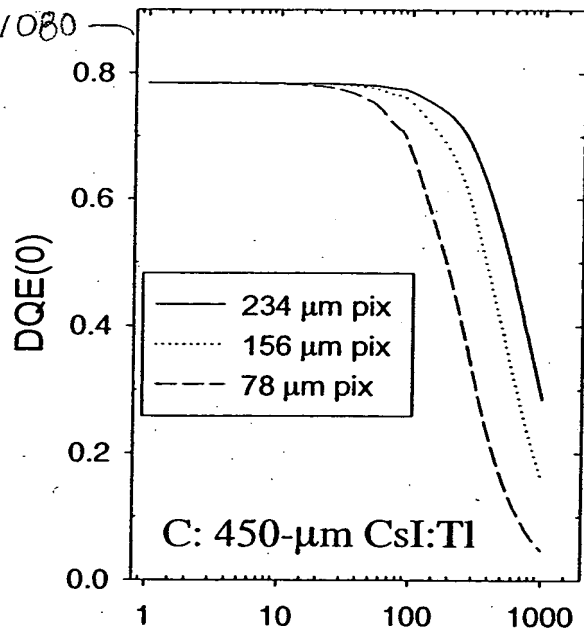


Figure 35C

Additive Noise, σ_{add} (electrons)

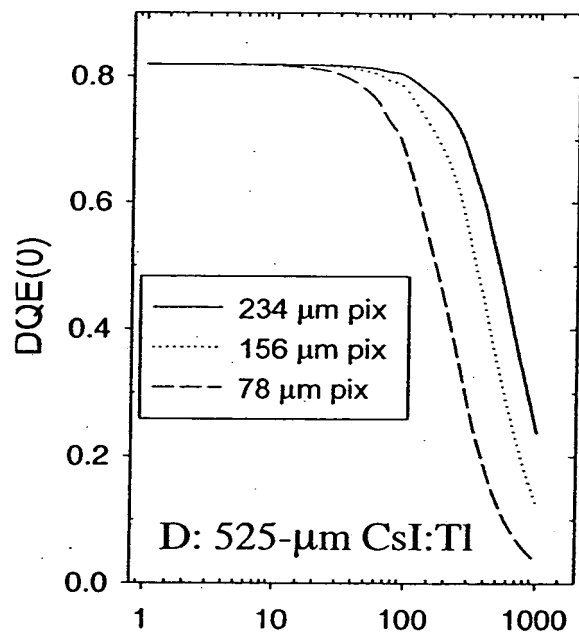
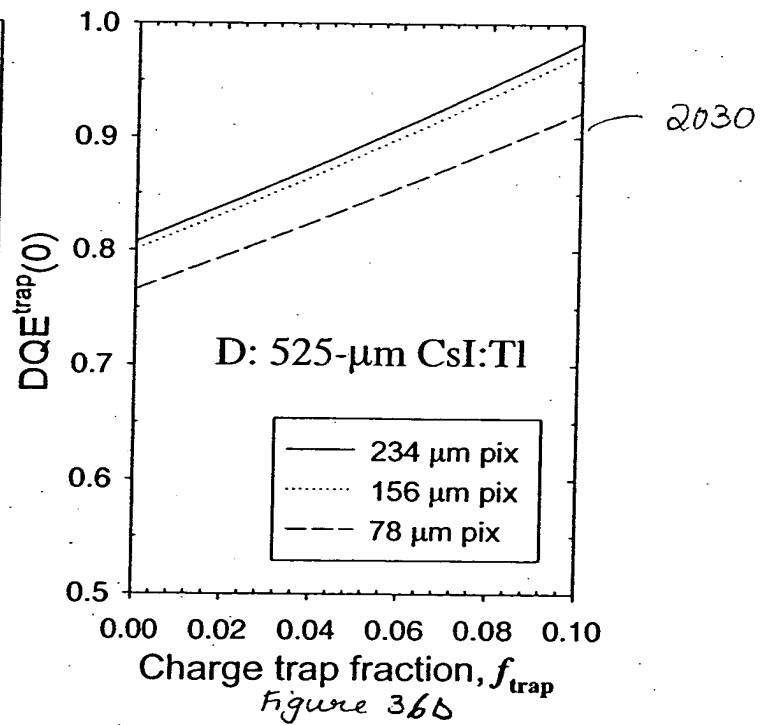
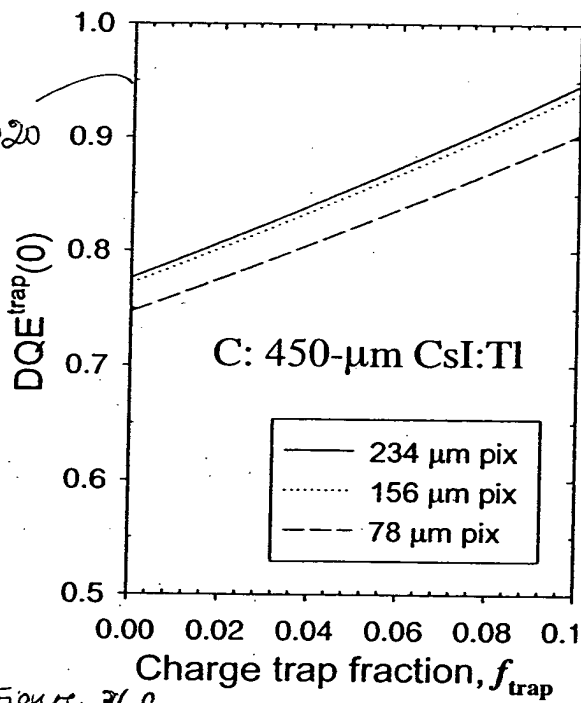
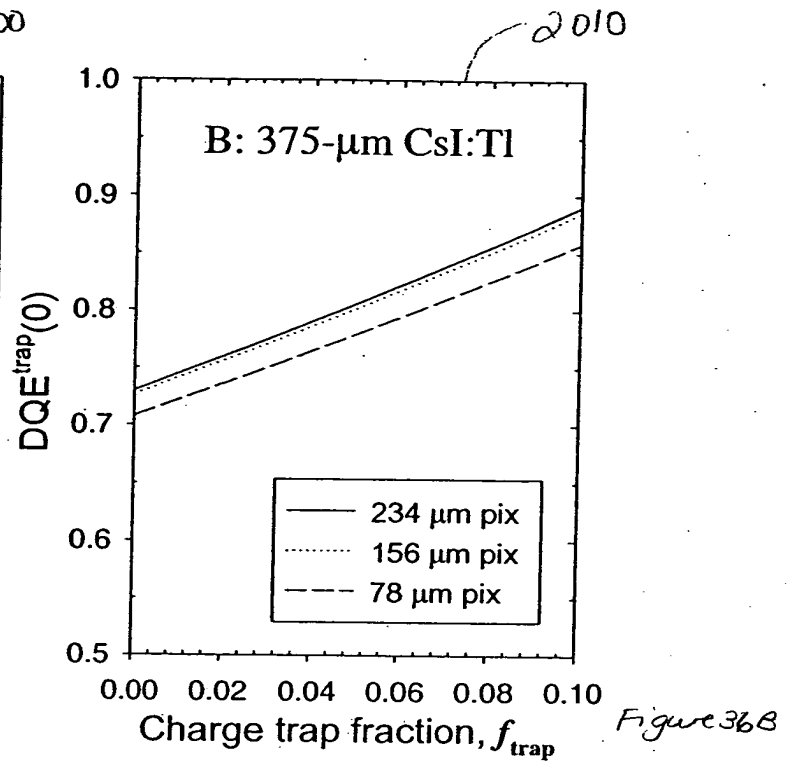
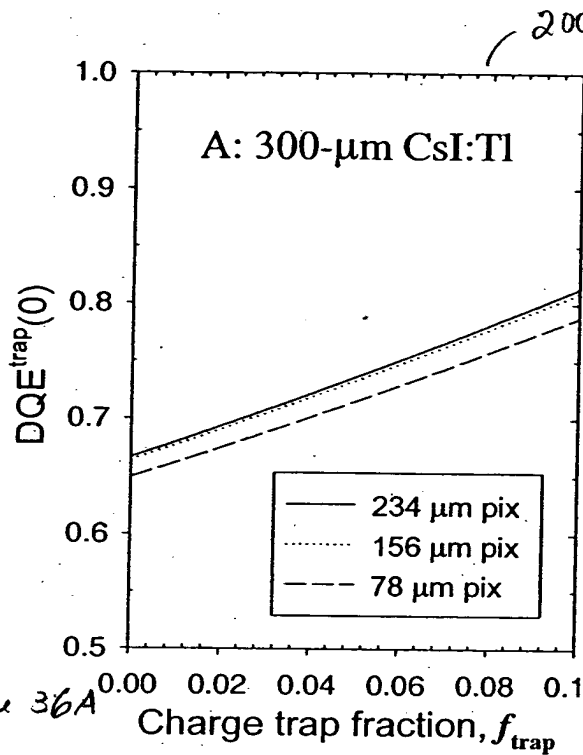
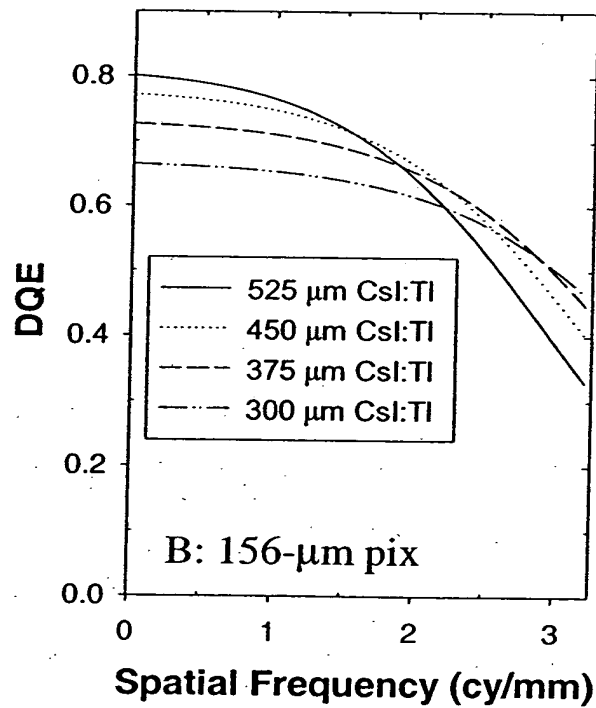
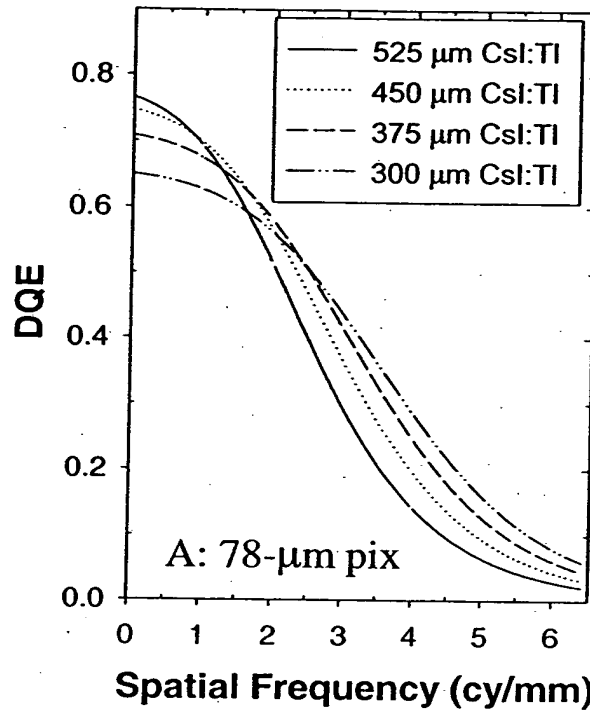


Figure 35D

Additive Noise, σ_{add} (electrons)





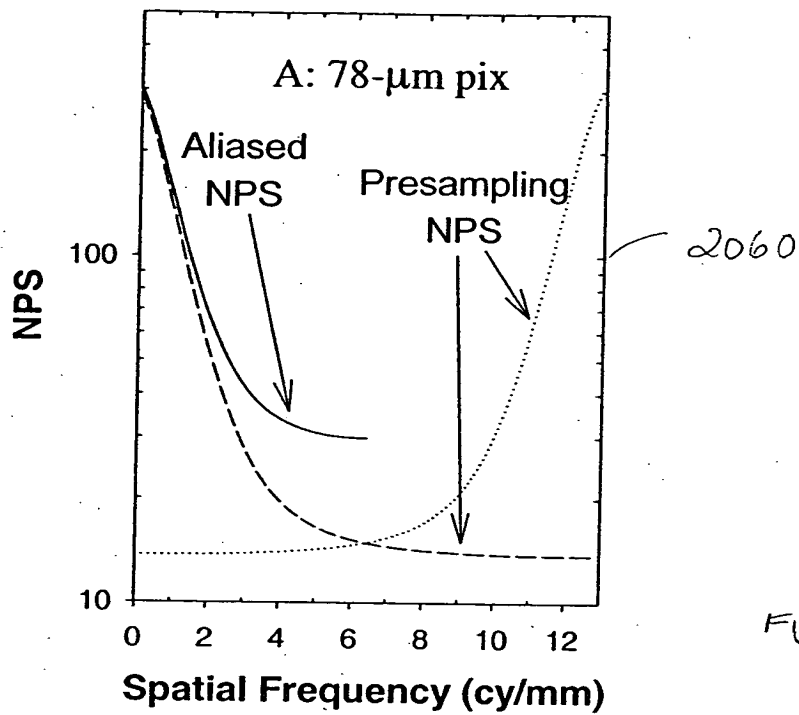


Figure 38A

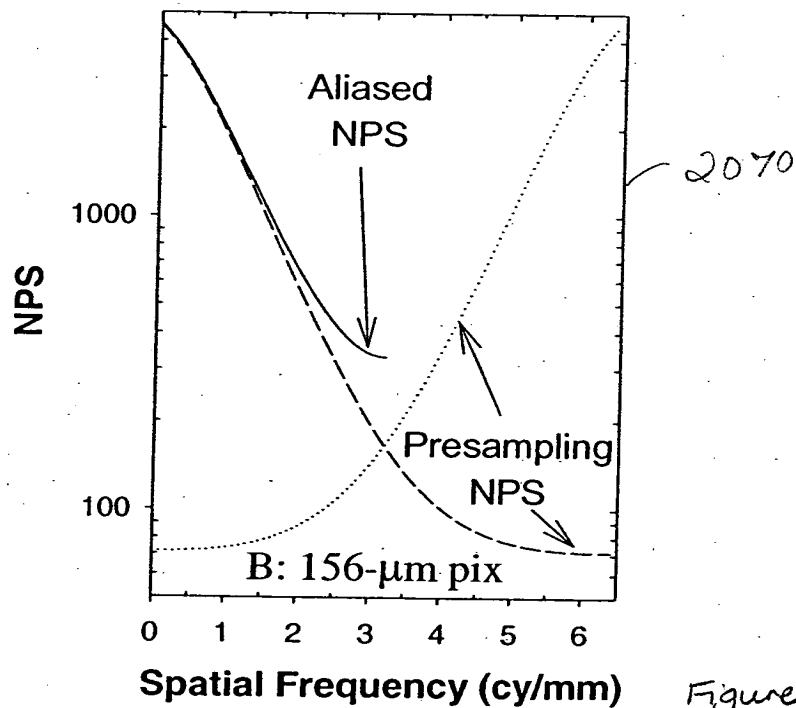


Figure 38B

FOI# 08806660

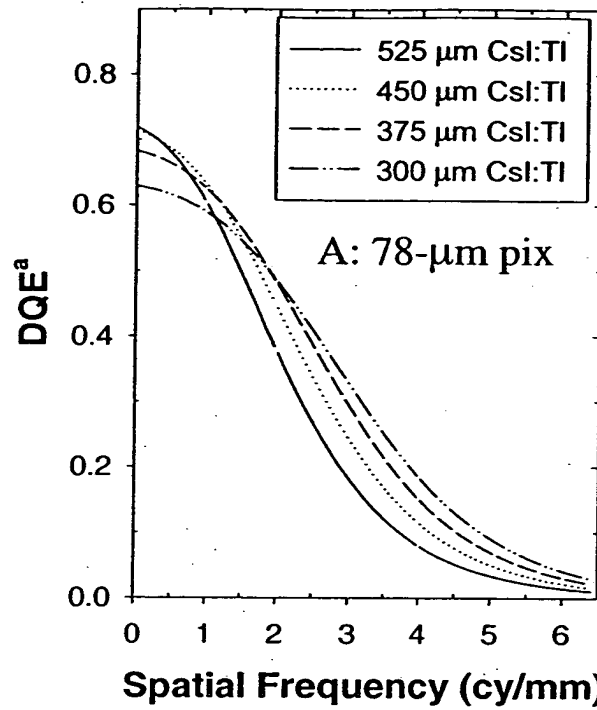


Figure 39

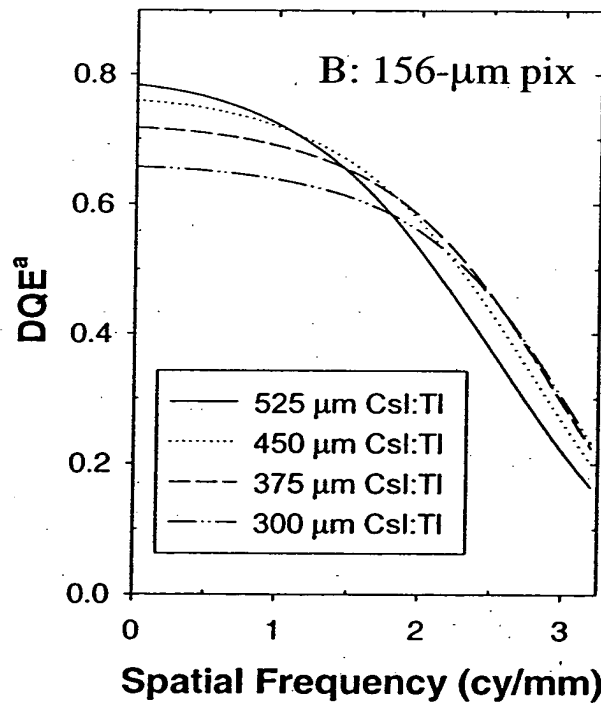
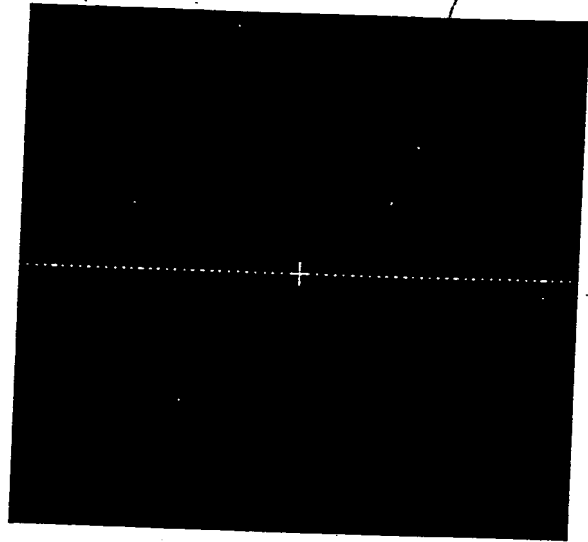
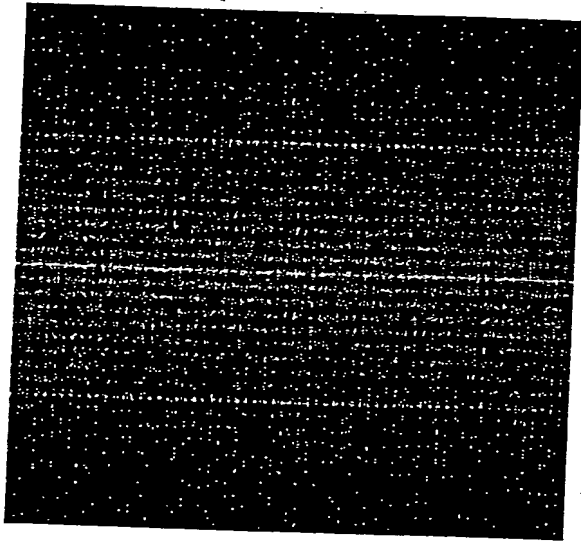


Figure 40

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FOI277 08806660

2100

2110



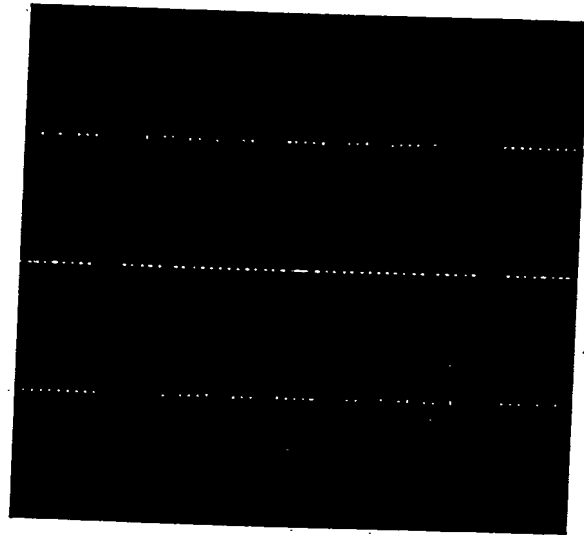
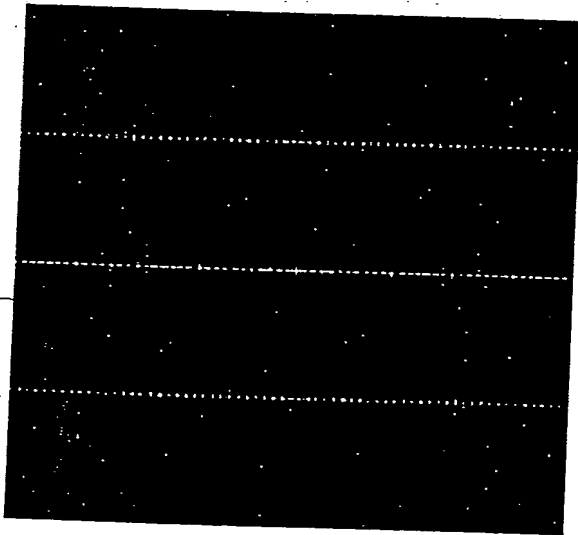
09590880-112101

Figure 41A

6.865 FPS

13.73 FPS

Figure 41B



2120

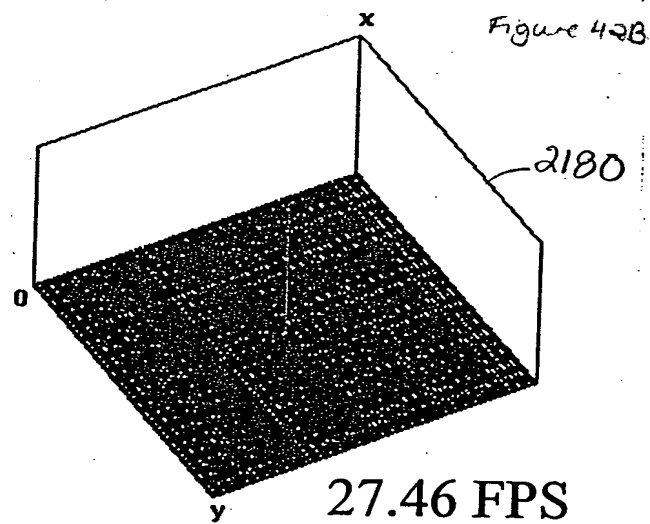
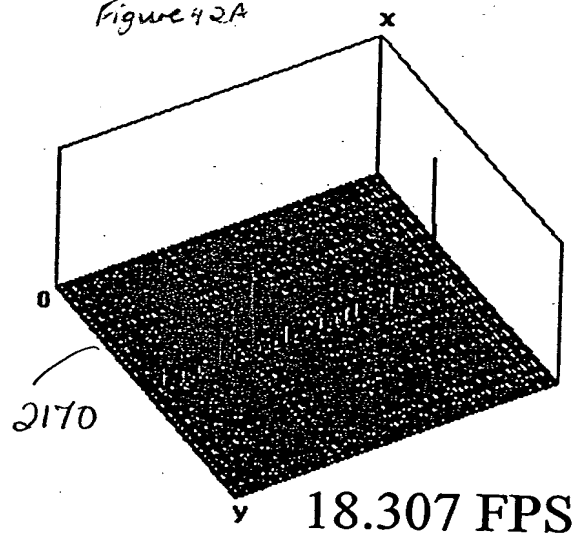
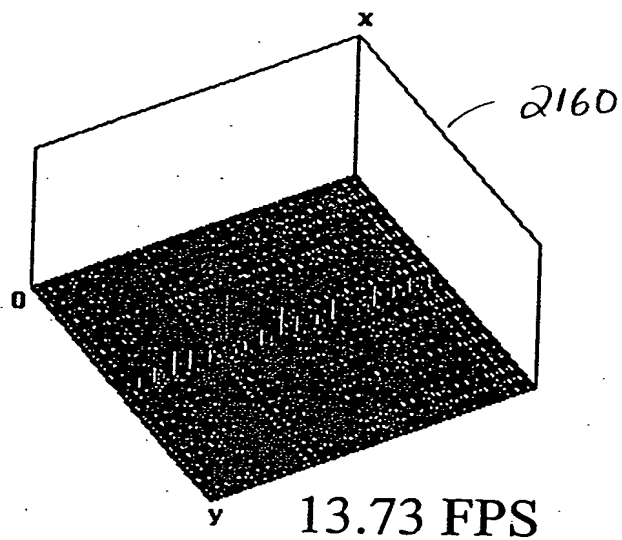
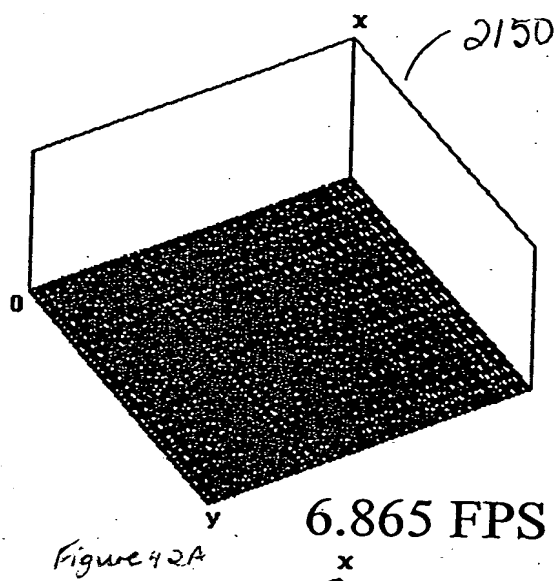
2140

18.307 FPS

27.46 FPS

Figure 41C

Figure 41D



09990880 112101
"TOTET" 08806660

2190

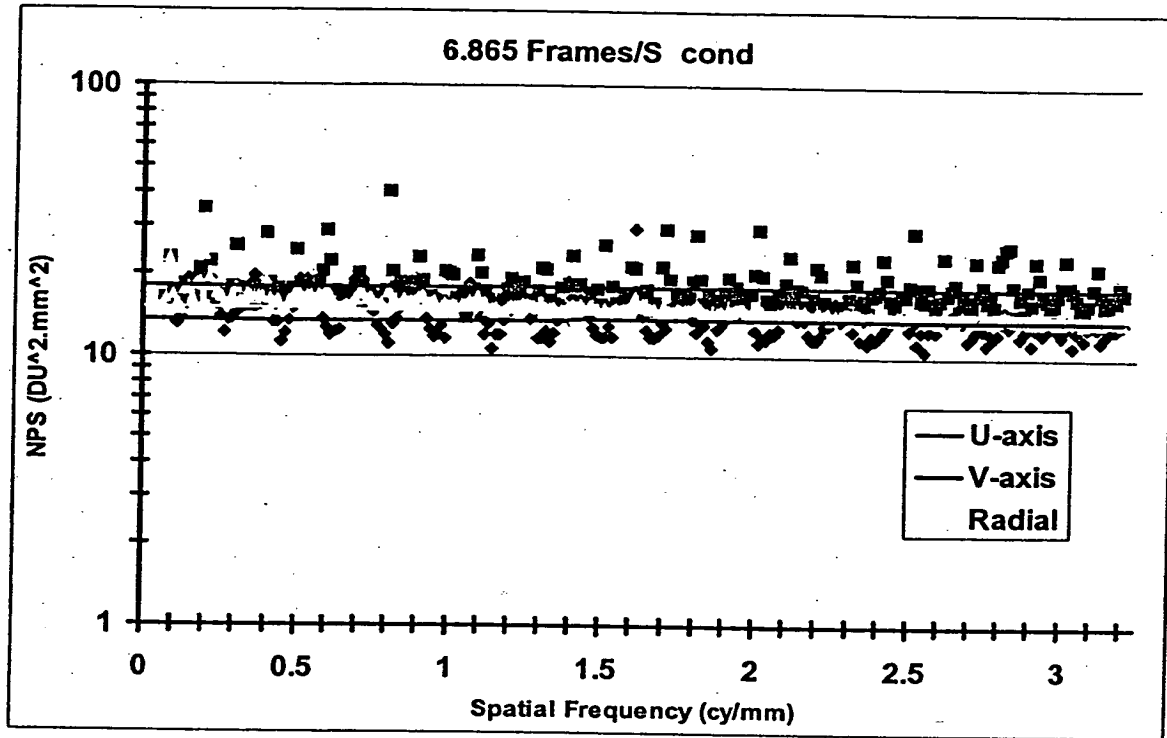


Figure 43

FOI2190 08806660

2200

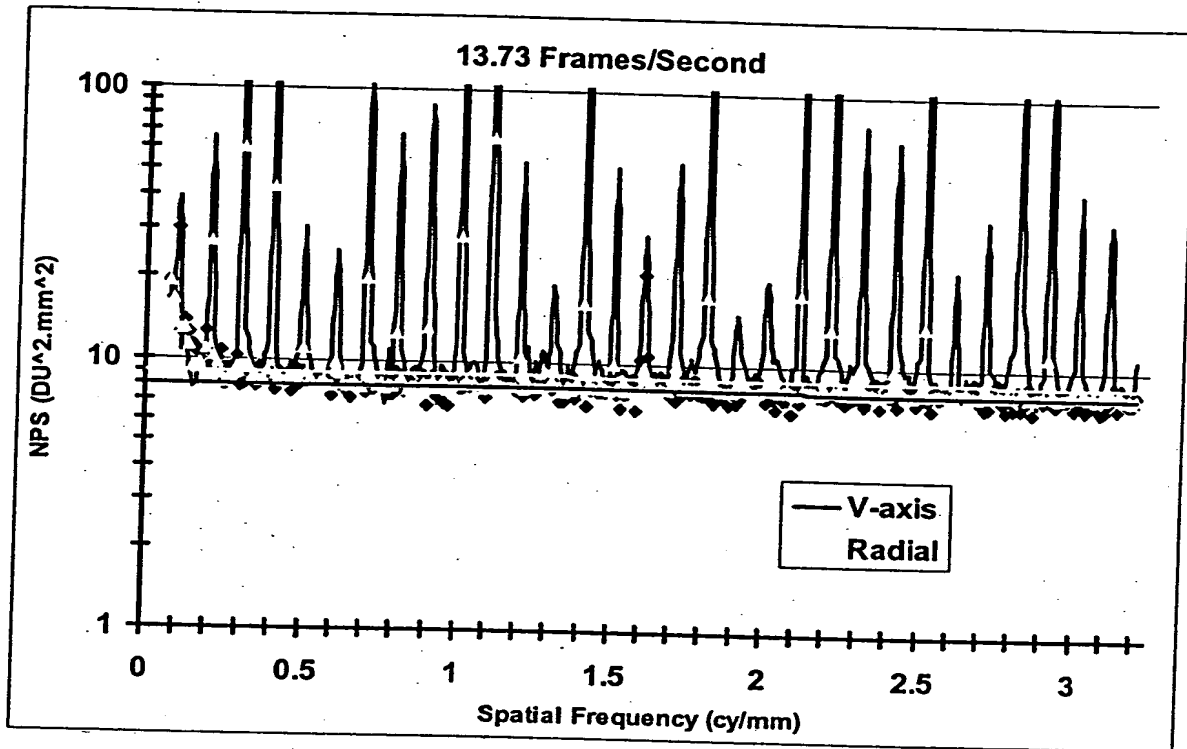


Figure 44

FOI217-08806660

2300

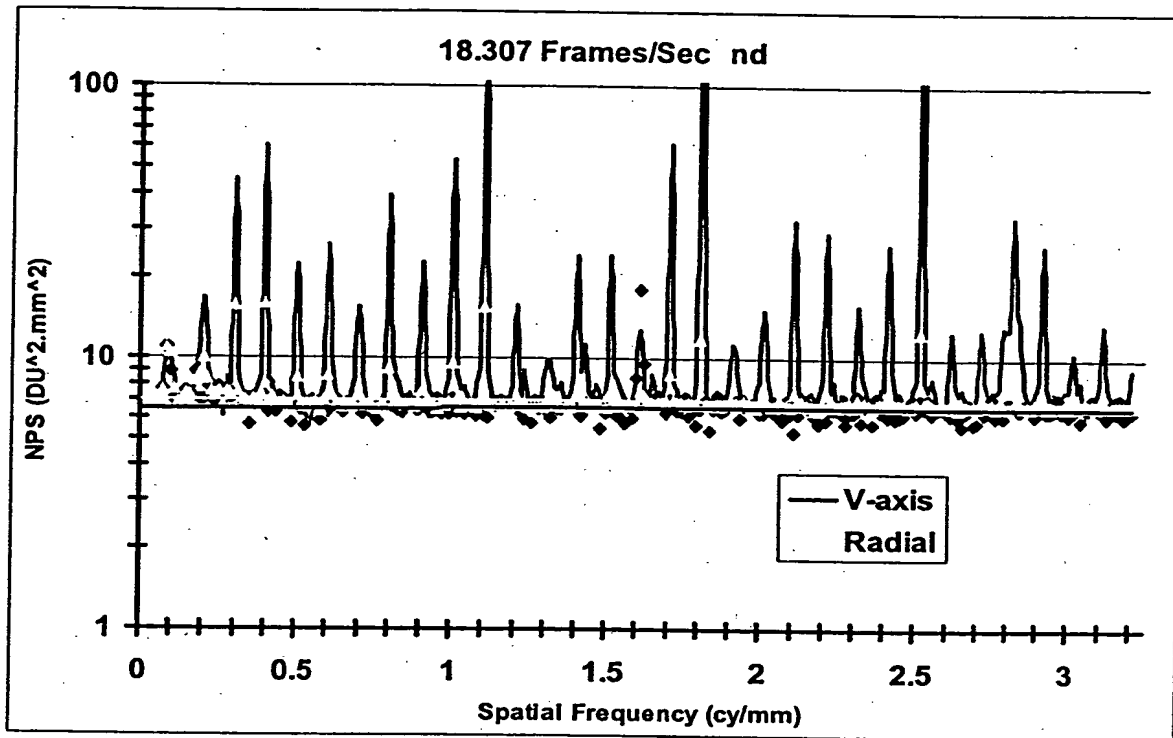


Figure 45

TOTET 08806660

2400

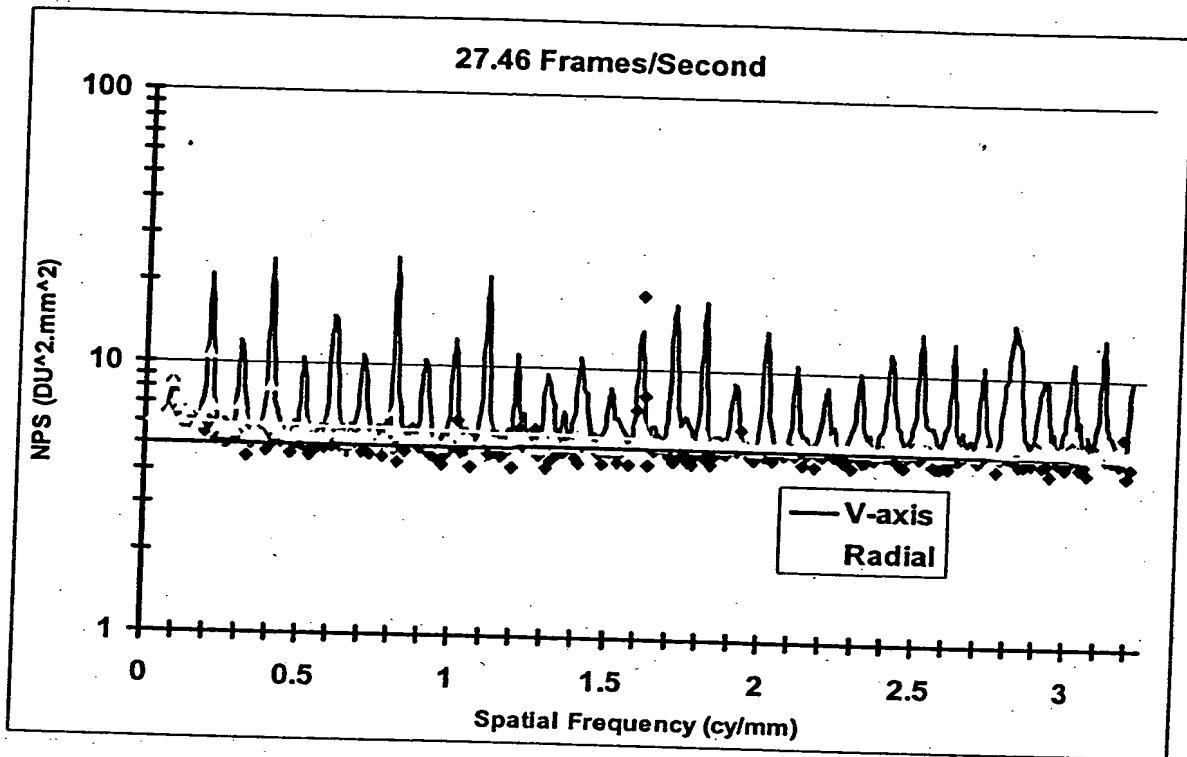


Figure 46

FOI277 08806660

2500

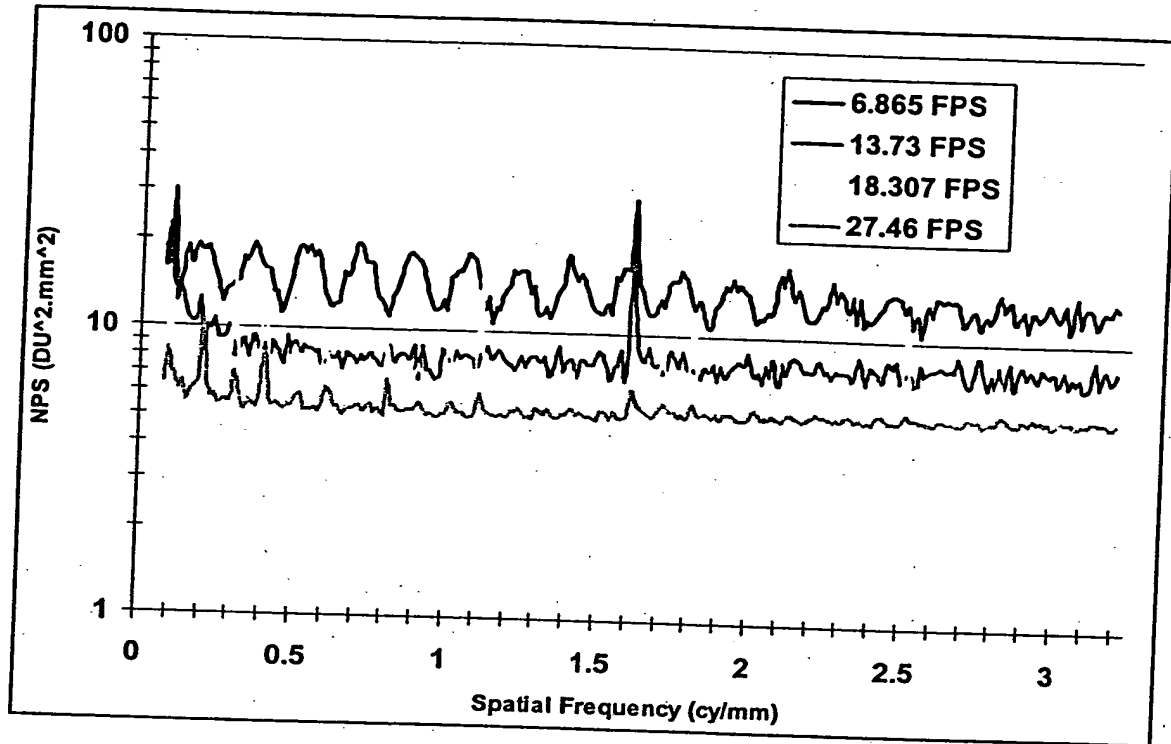


Figure 47

FOI27" 08806650

2600

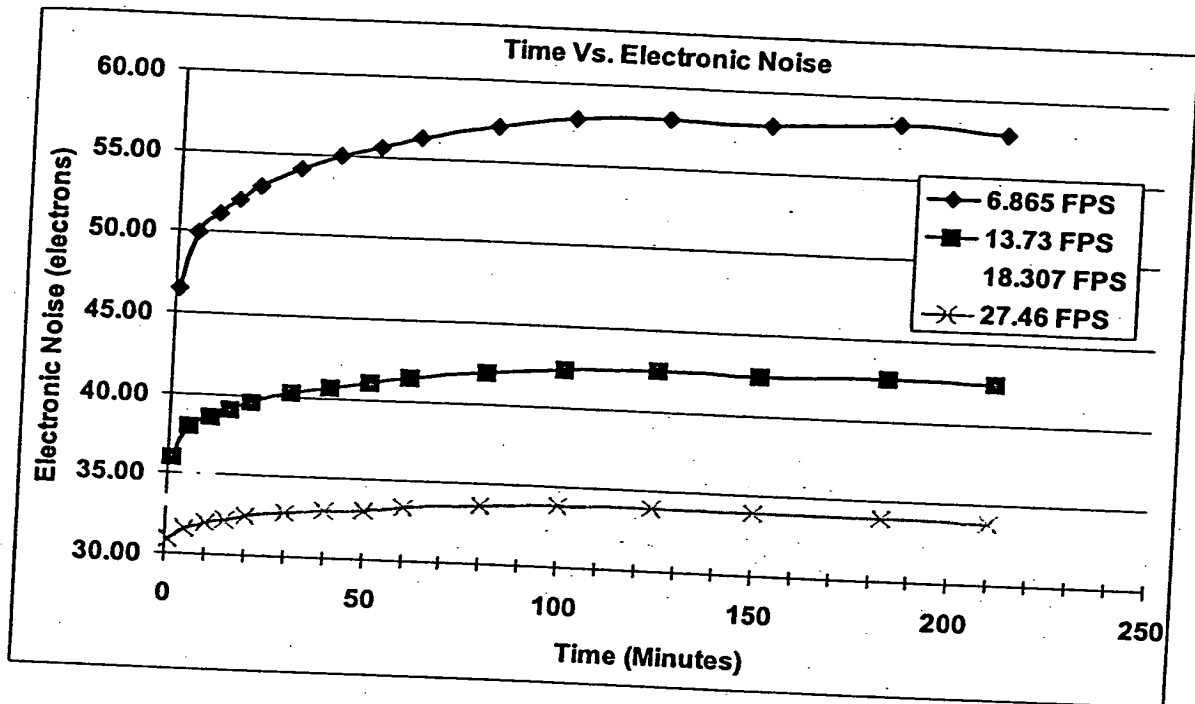


Figure 48

0990880-1101

2700

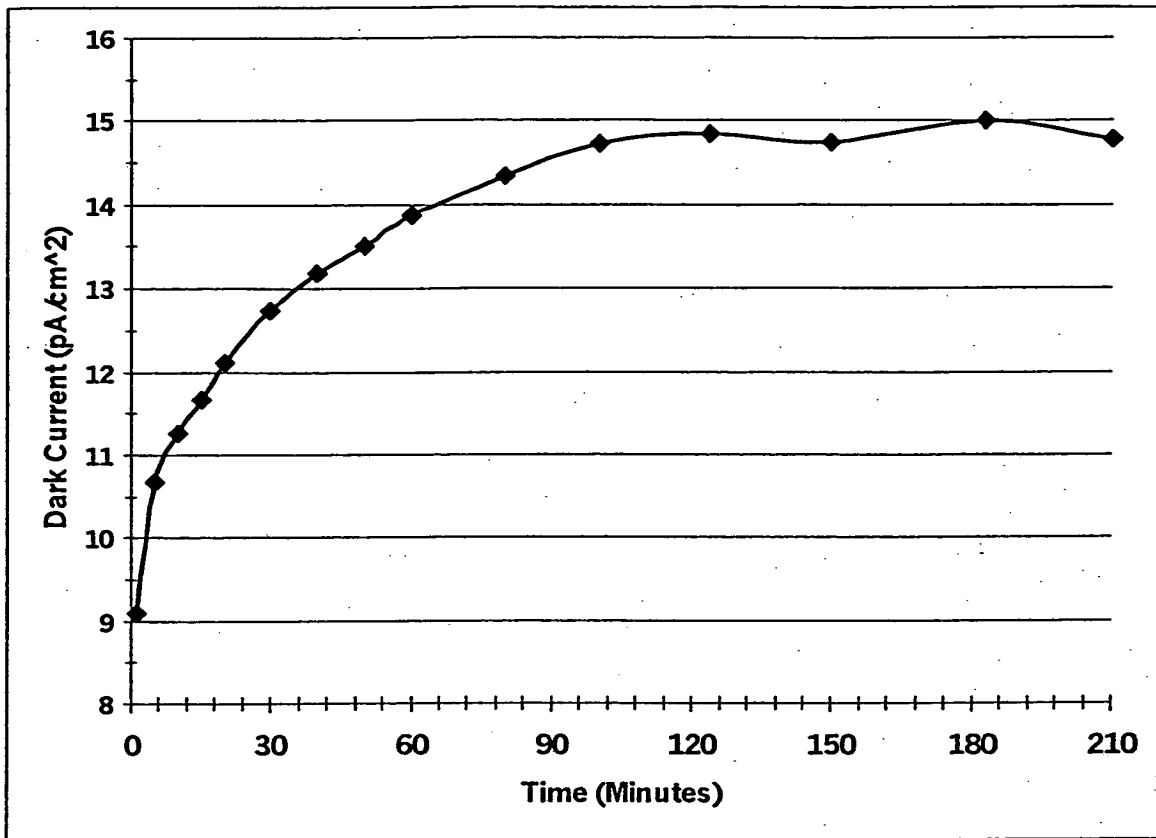


Figure 49

0990880 1210 08806660

2800

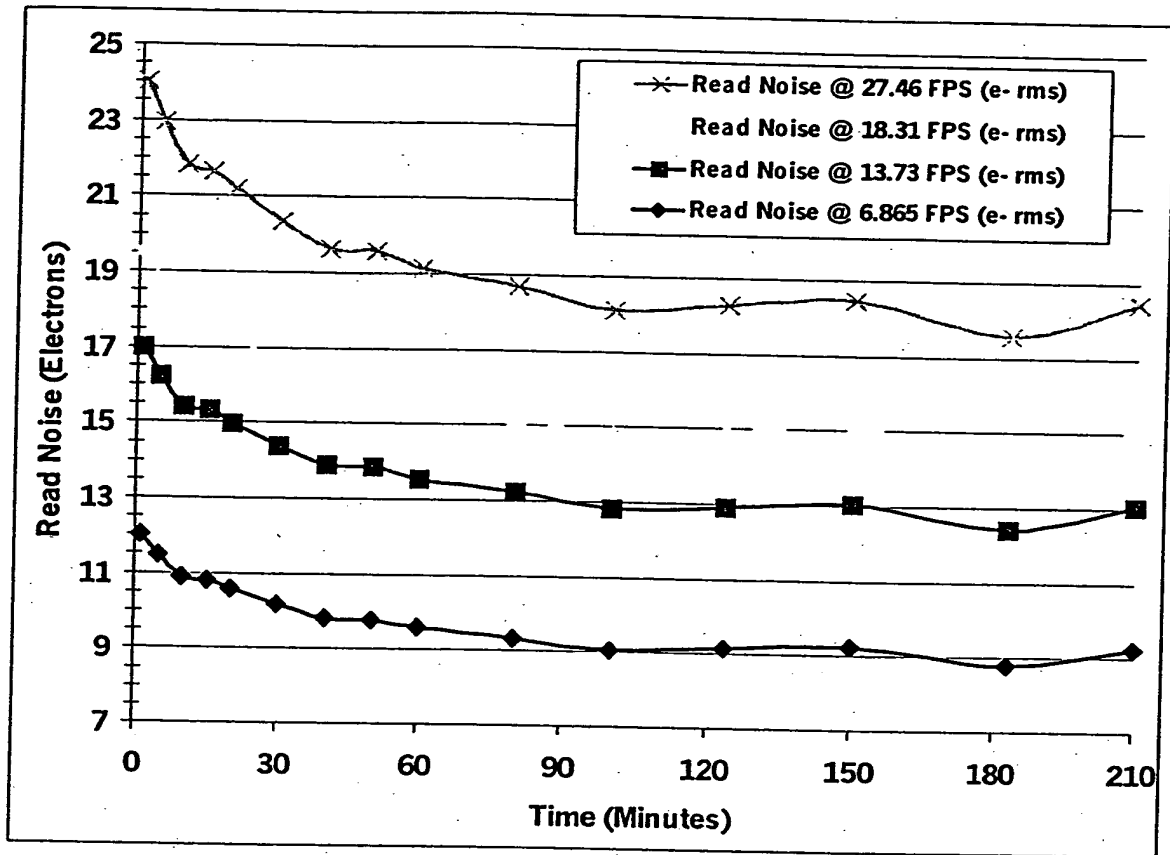


Figure 20

FOI# 08806660

22900

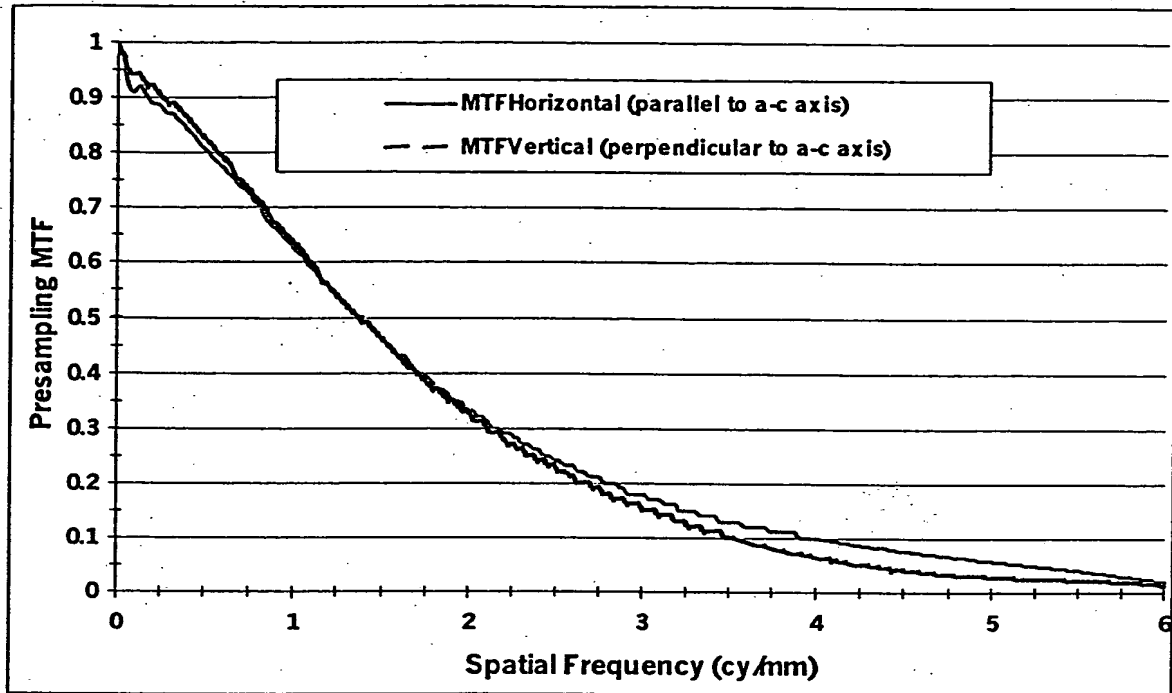


Figure 51

TOTET 08806660

3000

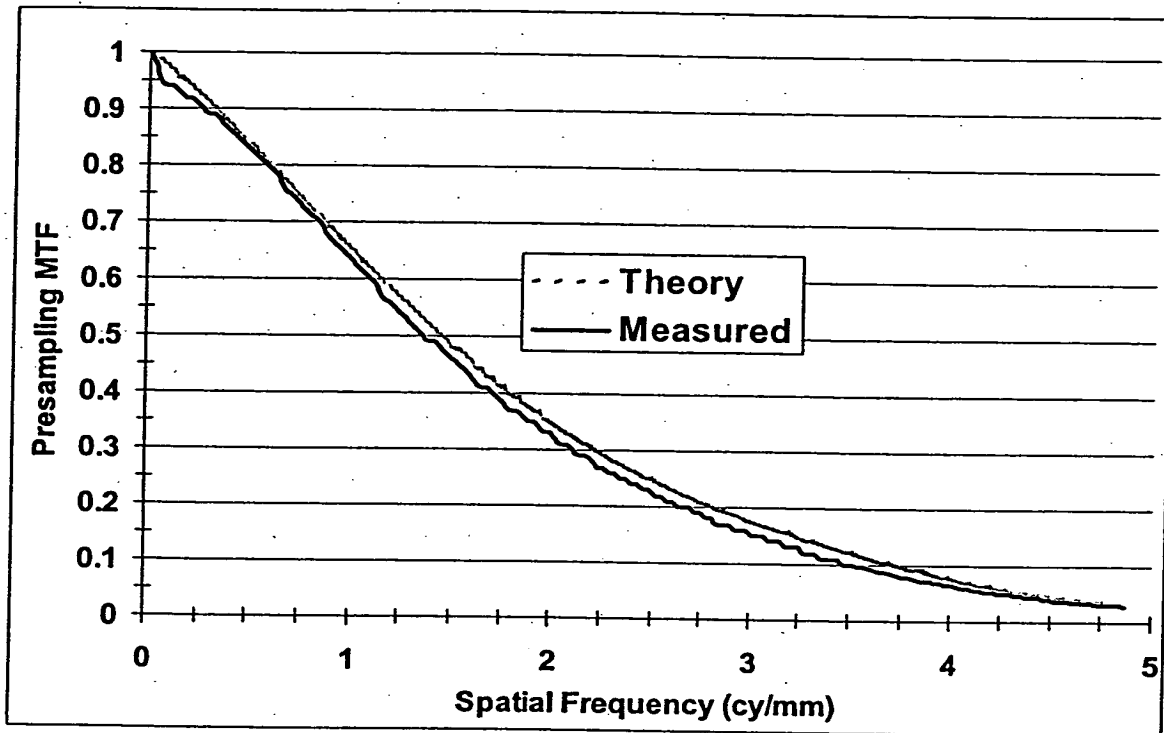


Figure 52

09990880-112101

3100

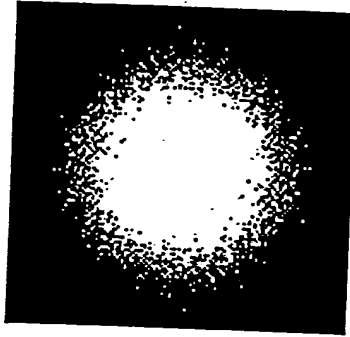


Figure 53

09990880-112101

3200

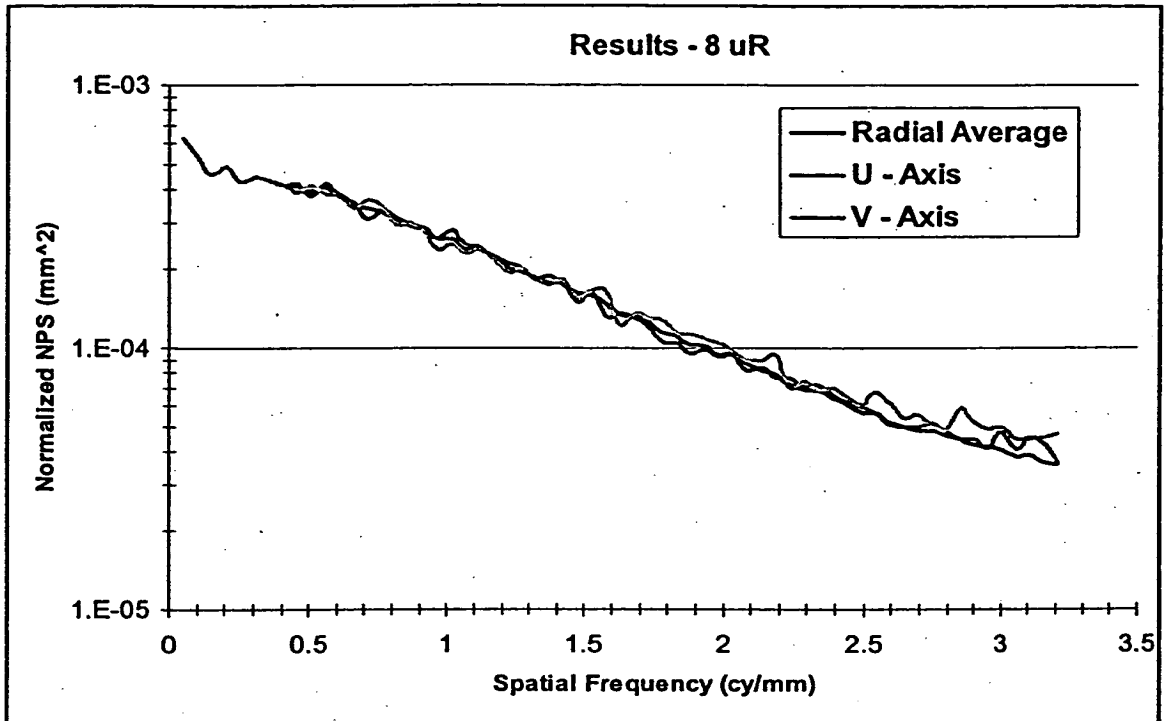


Figure 54

TOTET" 08806660

3300

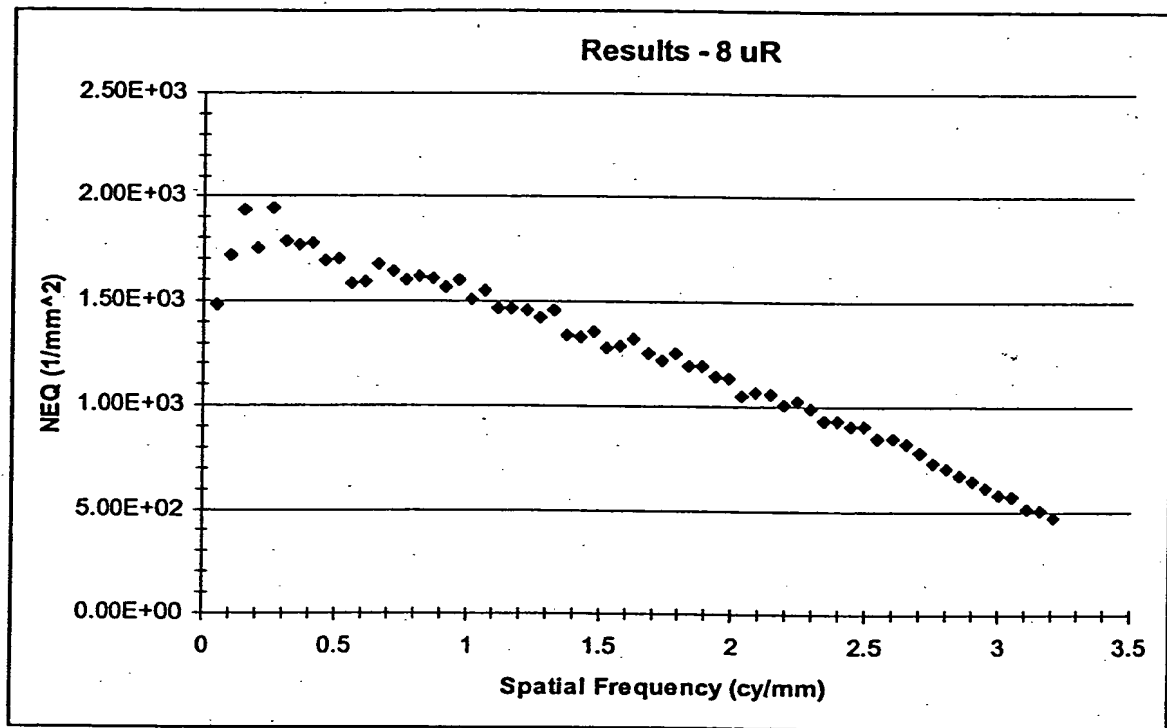


Figure 55

09990890 101211 08306660

3400

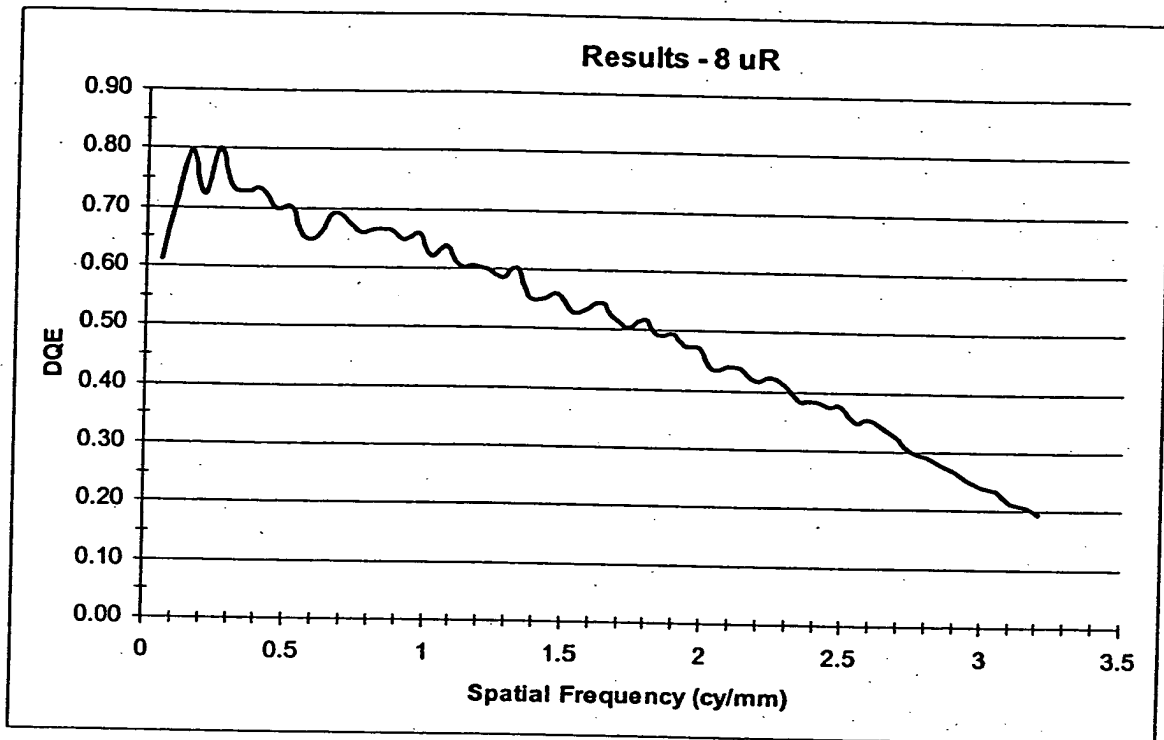


Figure 56

FOI# 0880660

Σ3500
TOTET" 08806660

U-axis Measurements

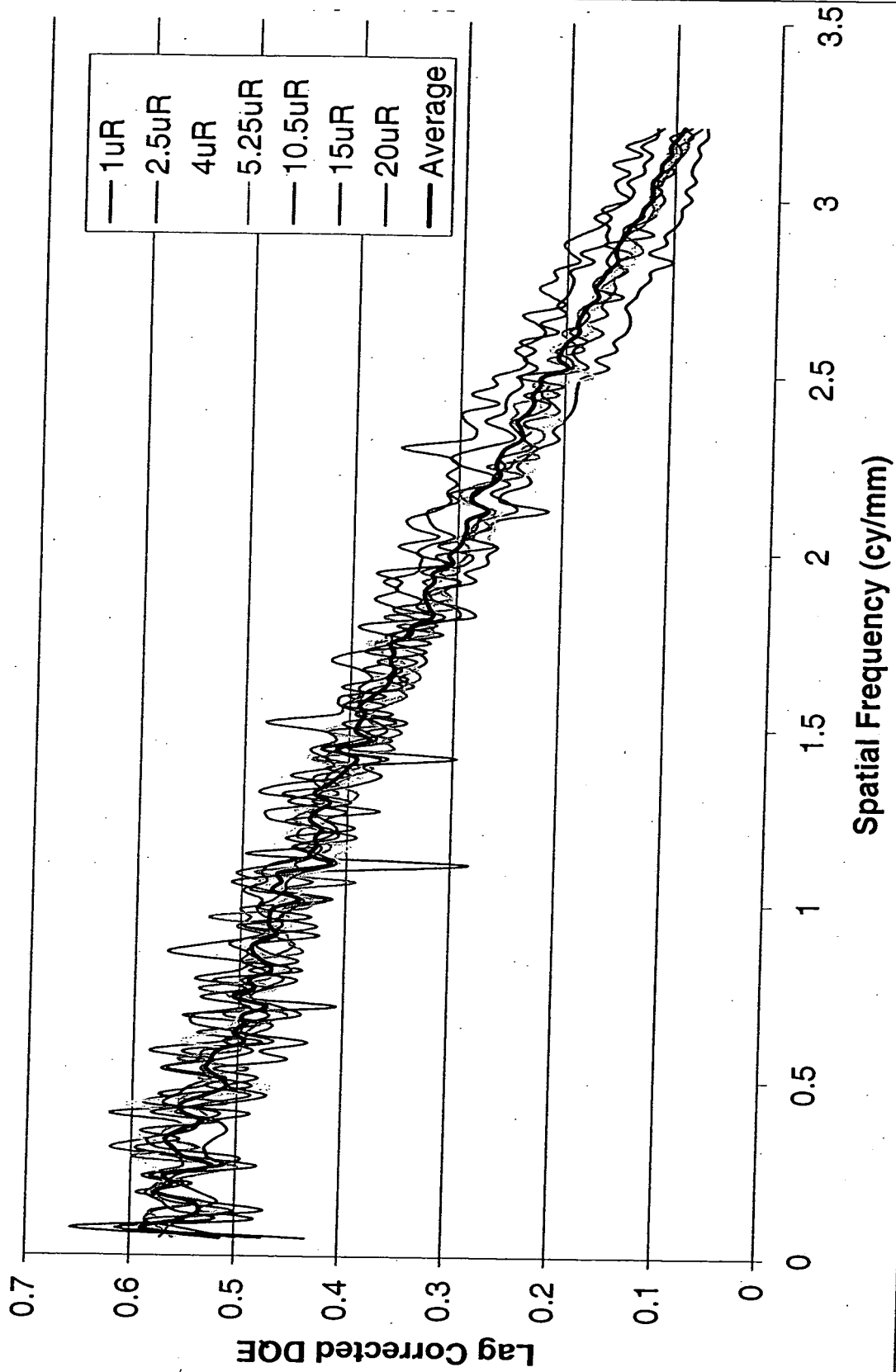


Figure 57

V-axis Measurements

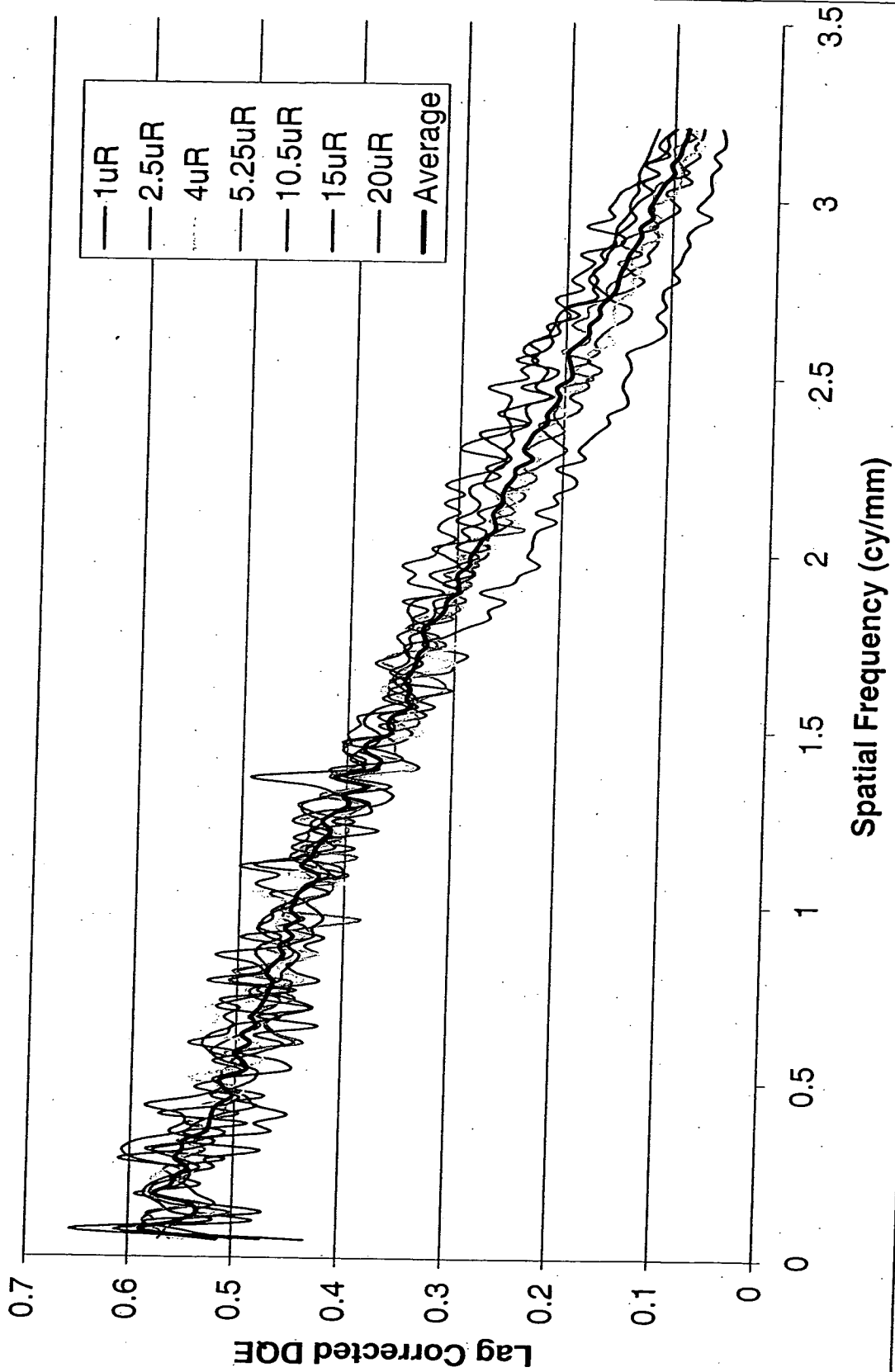


Figure 58

1-uR: U and V - Axis comparison

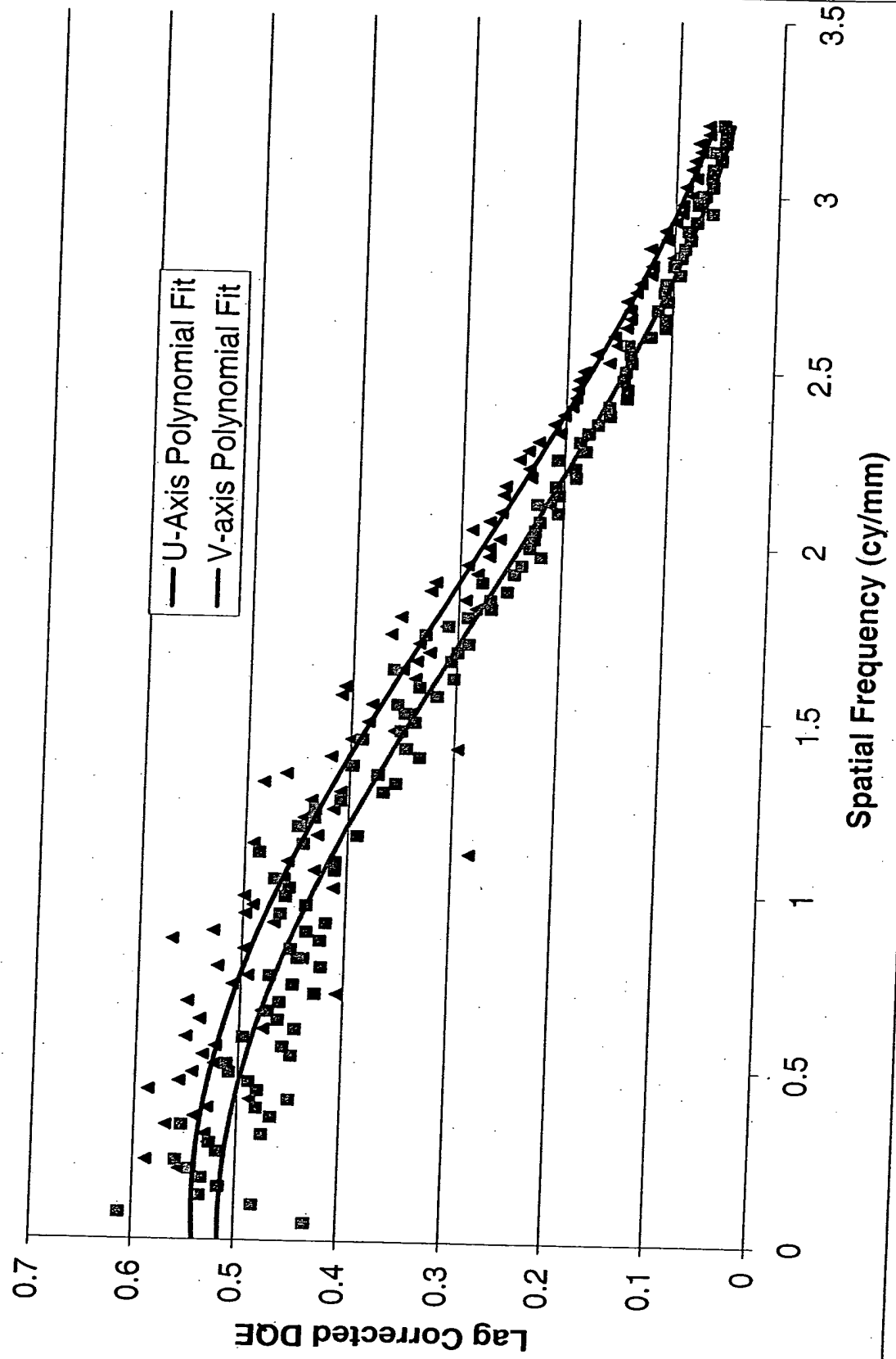
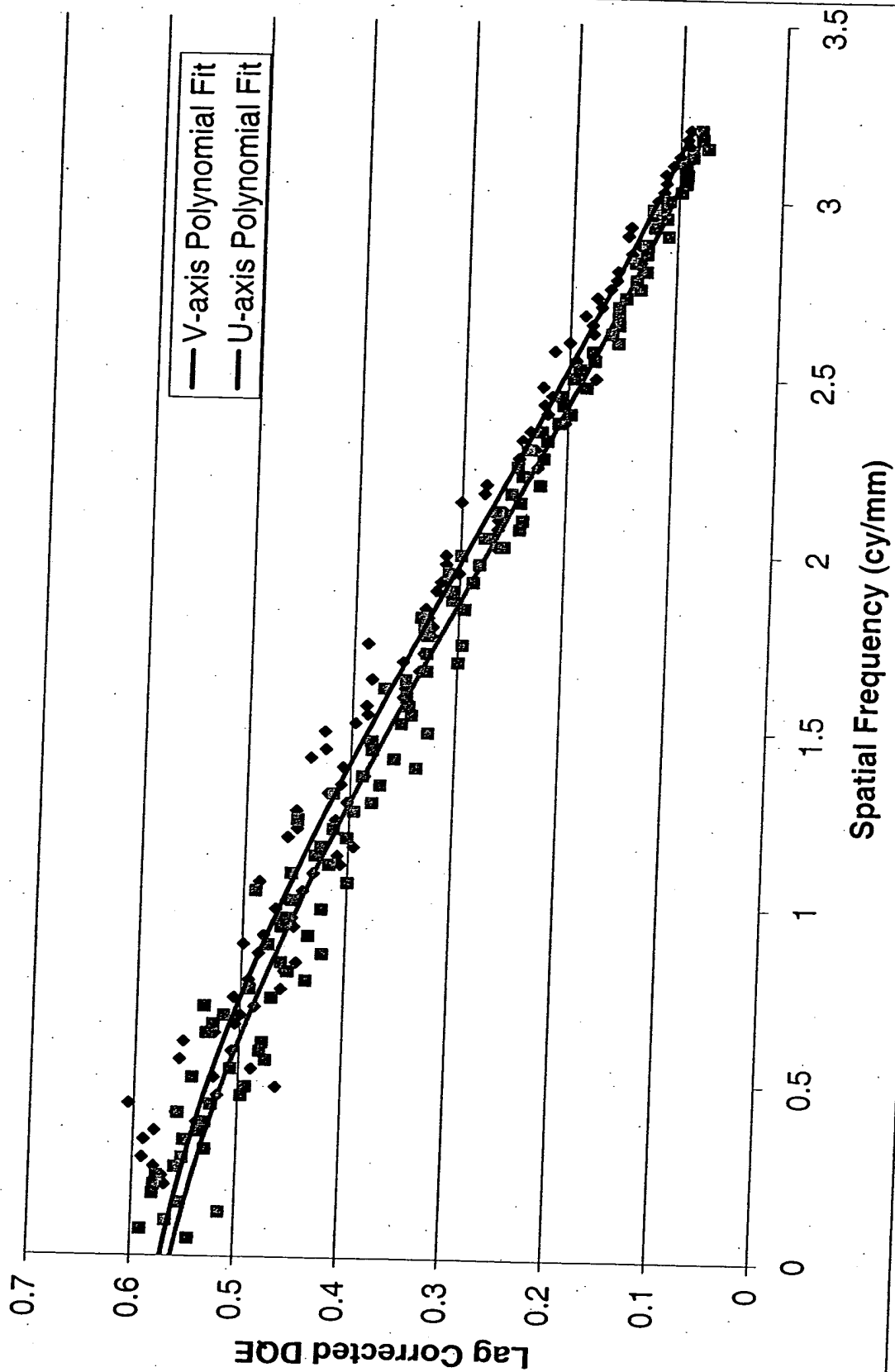


Figure 59

3800

FOIETT 08806660

4-uR: U and V - Axis comparison



11/1/01

Figure 60